

DRW.01-POLE MOUNTED TRANSFORMER DETAILED ASSEMBLY STRUCTURE

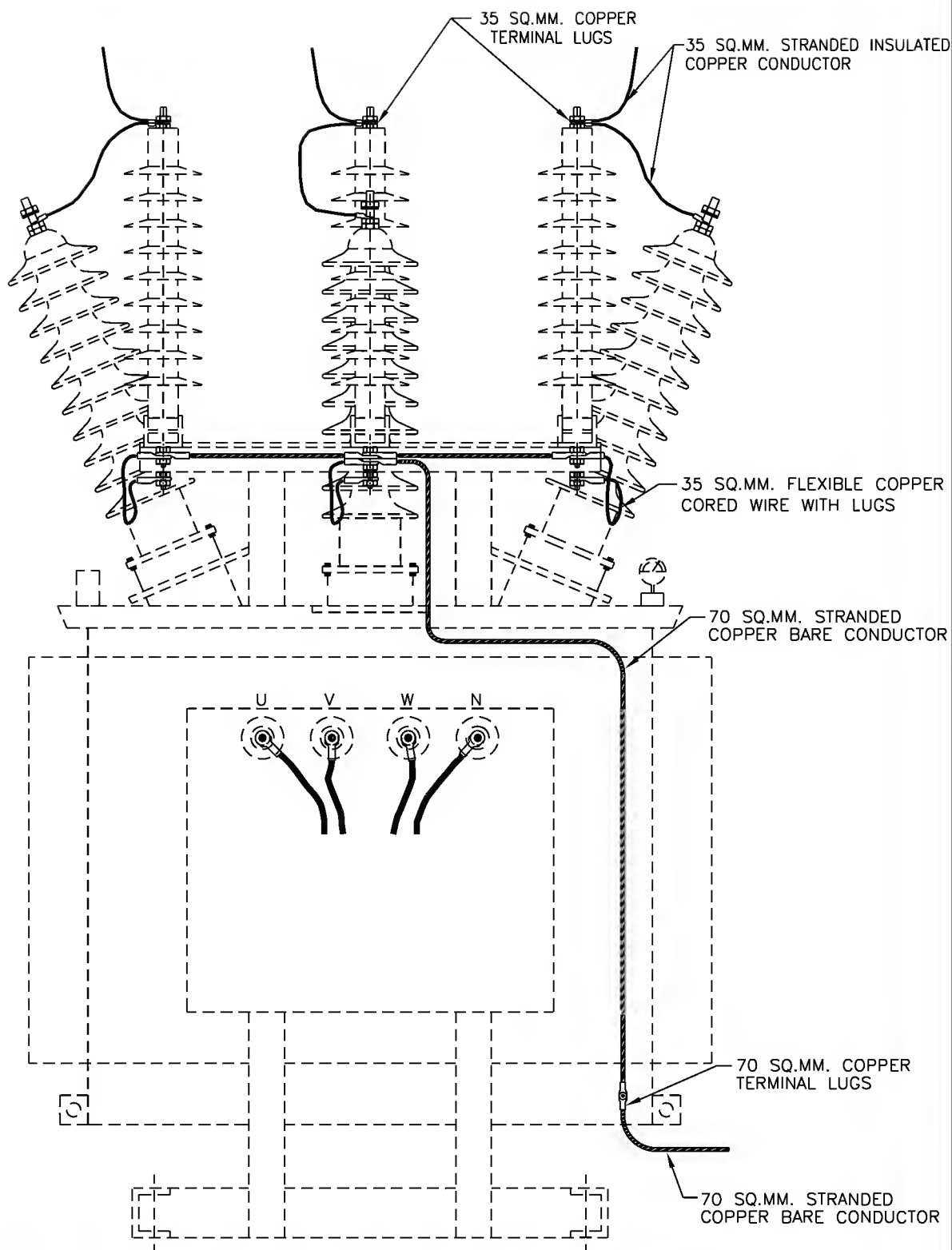
ALL DIMENSIONS ARE IN MILLIMETER



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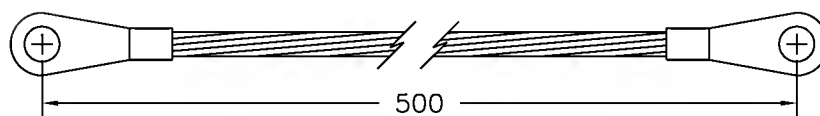
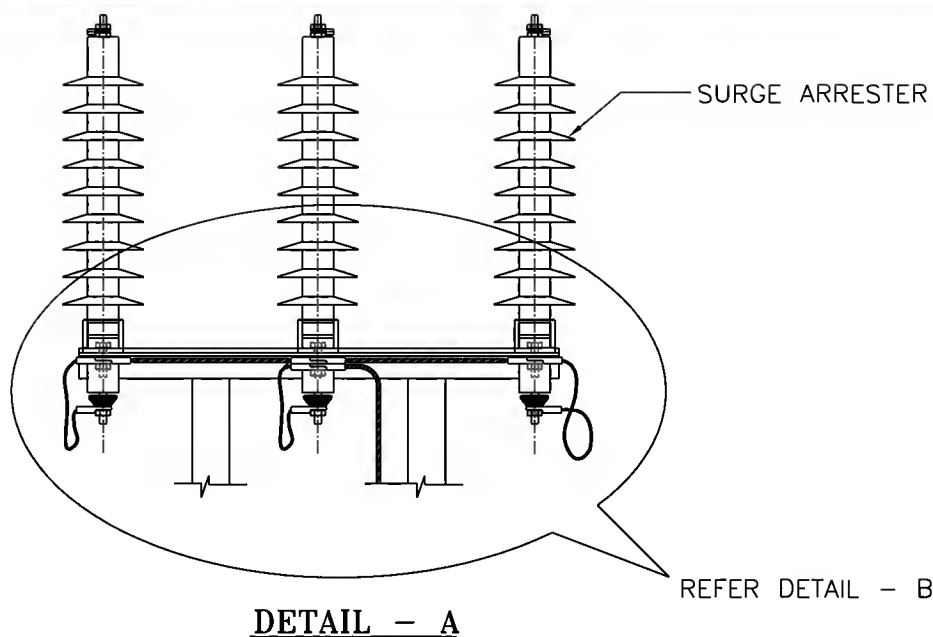
DRW.02-POLE MOUNTED TRANSFORMER EARTHING DETAILED DRAWING

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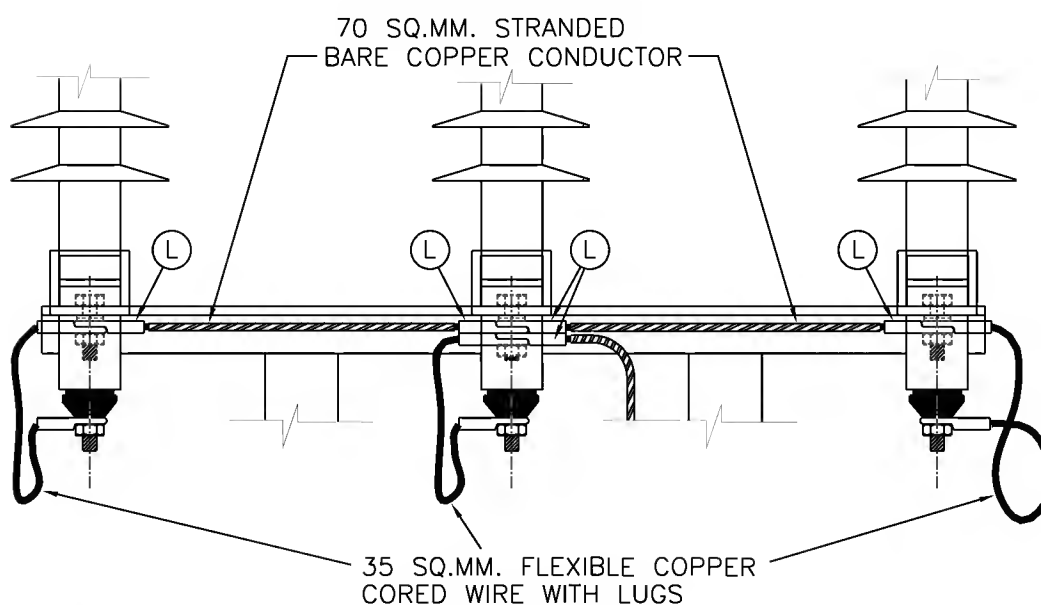
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35 SQ.MM. FLEXIBLE COPPER CORED WIRE WITH LUGS



L - 5Nos. 70SQ.MM COPPER TERMINAL LUGS

DETAIL - B

DRW.03-LIGHTING ARRESTER EARTHING DETAILED DRAWING

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**200/300kVA PMT ON 12M POLE
H-FRAME TRANSFORMER STRUCTURE**





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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SOMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SOMS-02	Fig. 4
08	7	Line Post Insulator	15-SOMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SOMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SOMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SOMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
18	2	Eye Nut, M16	20-SOMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SOMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SOMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SOMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
31	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SOMS-02	
33	3	Surge Arrester, 33kV	35-SOMS-01	
34	15M	70mm ² Copper Bare Conductor		
35	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SOMS-01	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	

DRW.04A1/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm ² , Cu.	12-SOMS-01	
39	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SOMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SOMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SOMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SOMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SOMS-02	
55	36M	Quadruplex Cable, Al. 120mm ²	11-SOMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
60	27M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SOMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SOCS-01	Orw. 310
67	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 5D
69	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SOMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT- Structure/200	SDCS-01	Orw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optional)	SOCS-01	

DRW.04A2/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

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02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm ² Copper Bare Conductor		
35	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-01	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.04B1/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET**

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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm ² , Cu.	12-SOMS-01	
39	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SOMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SOMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SOMS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SOMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Cable.	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SOMS-02	
55	36M	Quadruplex Cable, Al., 120mm ²	11-SOMS-02	
56	1	Bi-Metalic connector, 2Balts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
57	4	Bi-Metalic connector, 2Balts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
60	27M	Anti-Climbing Divice, Barbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SOMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SOCS-01	Orw. 310
67	6	Phasing Plates Maunting Brackets	20-SOMS-02	Fig. 54
68	2 Set	Danger Sign Maunting Brackets	20-SOMS-02	Fig. 5D
69	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SOMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Orw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SOCS-01	

DRW.04B2/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

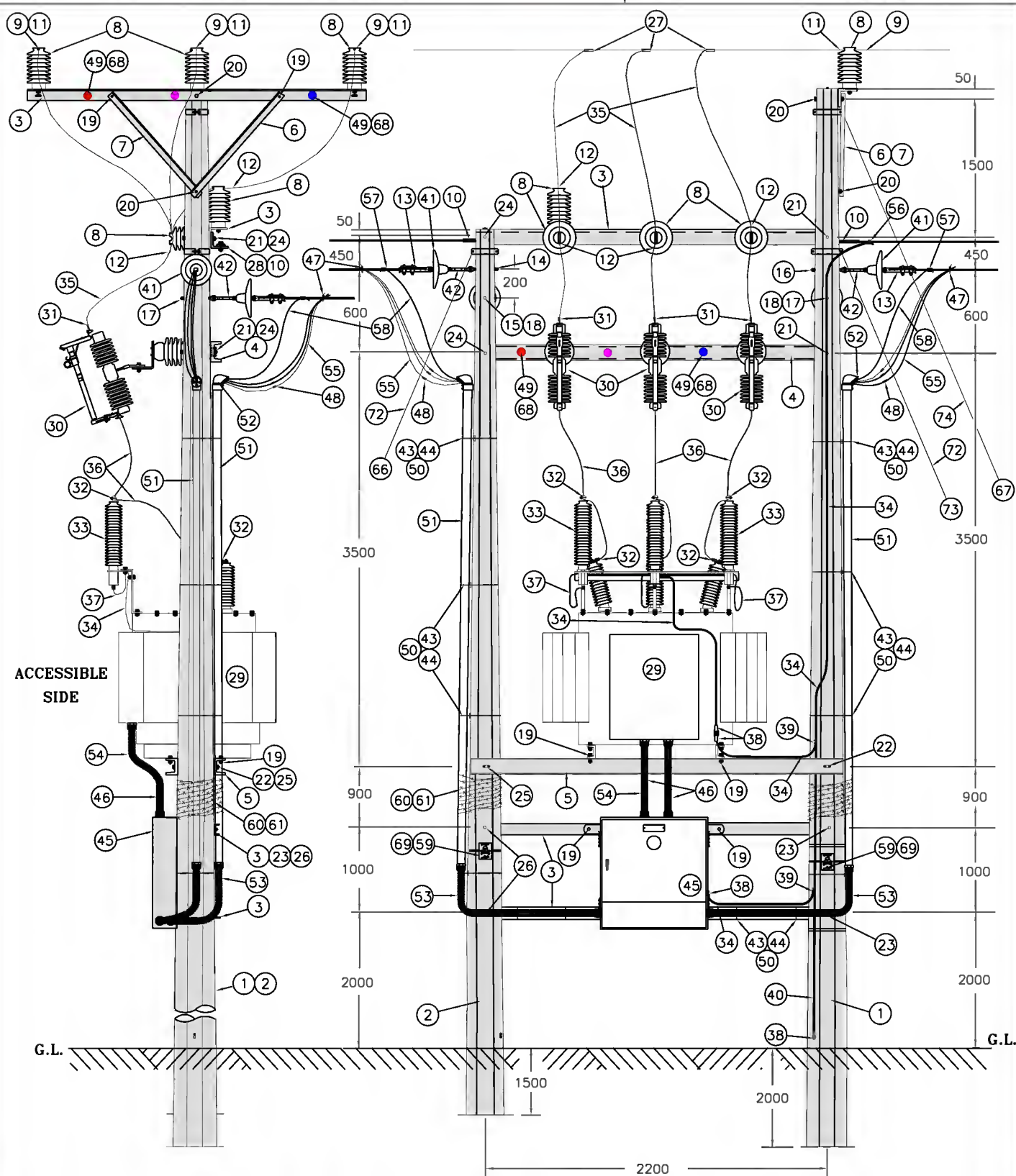
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DRW.05-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
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02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SOMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SOMS-02	Fig. 4
08	7	Line Post Insulator	15-SOMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SOMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SOMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SOMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
18	2	Eye Nut, M16	20-SOMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SOMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SOMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SOMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
31	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SOMS-02	
33	3	Surge Arrester, 33kV	35-SOMS-01	
34	15M	70mm ² Copper Bare Conductor		
35	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SOMS-01	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	

DRW.05A1/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

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38	13	Terminol Lugs for 70mm ² , Cu.	12-SOMS-01	
39	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Bond	20-SOMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Bond	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SOMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
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52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SOMS-02	
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54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SOMS-02	
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57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
60	27M	Anti-Climbing Device, Borbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SOMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SOCS-01	Orw. 310
67	1 Set	M.V-S.C One Stay Assembly	SOCS-01	Orw. 312
68	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
70	16	Terminol Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
71	12	Terminol Lugs for Quadruplex Cable 4X120mm ² Al.	12-SOMS-02	Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SOCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SOCS-01	

DRW.05A2/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	2D-SDMS-D1	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-D2	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-D2	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-D2	Fig. 4
08	7	Line Post Insulator	15-SDMS-D1	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm ² ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	2D-SDMS-D2	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	2D-SDMS-D2	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
17	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 16
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	2D-SDMS-D2	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-D2	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-D1	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-D1	
31	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SDMS-D2	
33	3	Surge Arrester, 33kV	35-SDMS-D1	
34	15M	70mm ² Copper Bare Conductor		
35	15M	Quail Conductor, 67.44mm ² ACSR/AW	1D-SDMS-D1	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-D1	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.05B1/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm ² , Cu.	12-SOMS-01	
39	2	Crimp Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SOMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SOMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SOMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SOMS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D for 4x300mm ² Incoming Cable	20-SOMS-02	
55	36M	Quadruplex Cable, Al. 120mm ²	11-SOMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	11-SOMS-01	Fig. 49
60	27M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SOMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SOCS-01	Orw. 310
67	1 Set	M.V-S.C One Stay Assembly	SOCS-01	Orw. 312
68	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SOMS-02	Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SOCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SOCS-01	

DRW.05B2/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

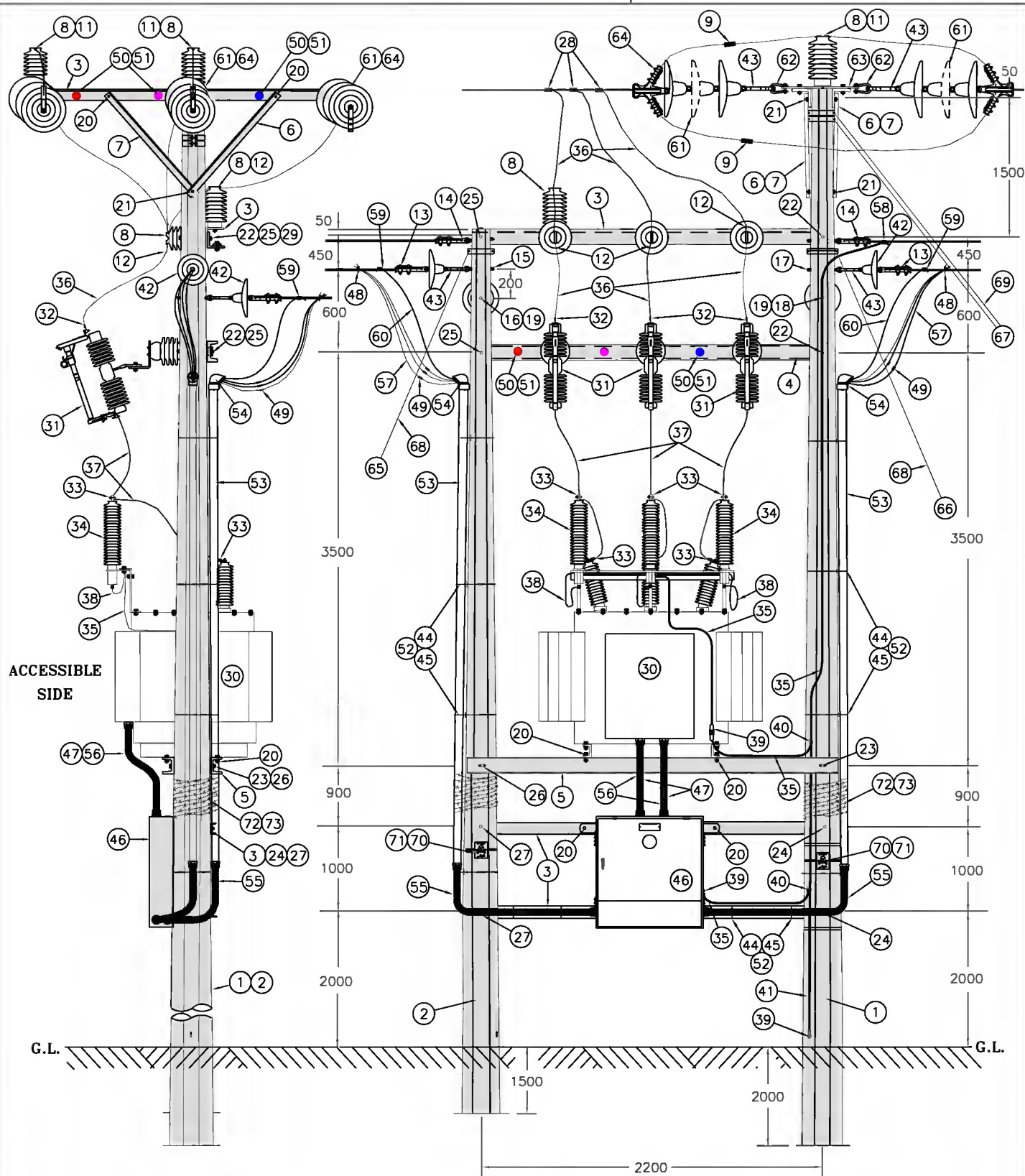
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SDCS-01

DATE: DECEMBER 2005G



DRW.06-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-SOMS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SOMS-02	Fig. 4
08	6	Line Post Insulator	15-SOMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SOMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SOMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SOMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SOMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SOMS-02	Fig. 30
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
19	2	Eye Nut, M16	20-SOMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SOMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 200KVA.	51-SOMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
32	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 42
33	9	Terminal Lug for 35mm ² Cu.	12-SOMS-02	
34	3	Surge Arrester, 33kV	35-SOMS-01	
35	15M	70mm ² Copper Bare Conductor		
36	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SOMS-01	

DRW.06A1/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm ² Cu. Flexible Cored Wire with Lugs	2D-SDMS-D2	
39	13	Terminal Lugs for 70mm ² , Cu.	12-SDMS-D1	
40	2	Crimpfit Cu. Connector For 70mm ² .	20-SDMS-D2	Fig. 45
41	1	Ground Wire Guard	20-SDMS-D2	Fig. 47
42	4	Suspension Insulator (Single)	15-SDMS-D1	Page.23
43	10	Clevis Eye Extension	2D-SDMS-D2	Fig. 21
44	15M	Stainless Steel Strap Band	2D-SDMS-D2	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	2D-SDMS-D2	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SDMS-D3	
47	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SDMS-D1	
48	4	Cable Tie	2D-SDMS-D2	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	2D-SDMS-D2	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	2D-SDMS-D2	Fig. 53
51	6	Phasing Plates Mounting Brackets	2D-SDMS-D2	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	2D-SDMS-D2	Fig. 55
53	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	2D-SDMS-D2	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	2D-SDMS-D2	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	2D-SDMS-D2	
57	36M	Quadruplex Cable, 120mm ²	11-SDMS-D2	
58	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	2D-SDMS-D2	
59	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	2D-SDMS-D2	
60	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn	11-SDMS-D1	
61	6 Set	Suspension Insulator	15-SDMS-D1	Page. 23
62	6	Anchor Shackle	2D-SDMS-D2	Fig. 2D
63	3	Double Arming Plate, 100x12x700mm Lg.	2D-SDMS-D2	Fig. D7
64	6	Strain Clamp, 3U-Bolts type for Merlin	2D-SDMS-D2	Fig. 29
65	1 Set	L.T One Story Assembly (Optional)	SDCS-D1	Drw. 31D
66	1 Set	L.T One Story Assembly On PMT-Structure/200	SDCS-D1	Drw. 31D
67	1 Set	M.V-S.C Two Story Assembly	SDCS-D1	Drw. 313
68	26M	Story wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-D1	
69	29M	Story wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-D1	
70	2 Set	Danger Sign Plate Complete With Its Accessories	2D-SDMS-D2	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	2D-SDMS-D2	Fig. 5D
72	27M	Anti-Climbing Device, Borbed Wire	2D-SDMS-D2	Fig. 13
73	4	Buckle Type, Locking Clip for Borbed Wire	2D-SDMS-D2	Fig. 13

DRW.06A2/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

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DRW.06A3/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Prefarmed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 300KVA	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm ² Copper Bare Conductor		
36	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-01	

**DRW.06B1/3-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	
39	13	Terminal Lugs for 70mm ² , Cu.	12-SOMS-01	
40	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
41	1	Ground Wire Guard	20-SDMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SOMS-01	Page.23
43	10	Clevis Eye Extension	20-SOMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SOMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SOMS-03	
47	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
48	4	Cable Tie	20-SOMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SOMS-02	Fig. 55
53	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SOMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SOMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SOMS-02	
57	36M	Quadruplex Cable, 120mm ²	11-SOMS-02	
58	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
59	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn	11-SDMS-01	
61	6 Set	Suspension Insulator	15-SOMS-01	Page. 23
62	6	Anchor Shackle	20-SOMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SOMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SOMS-02	Fig. 29
65	1 Set	L.T One Story Assembly (Optional)	SOCS-01	Orw. 310
66	1 Set	L.T One Story Assembly On PMT-Structure/200	SOCS-01	Orw. 310
67	1 Set	M.V-S.C Two Story Assembly	SOCS-01	Orw. 313
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SOCS-01	
69	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SOCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
72	27M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13

DRW.06B2/3-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

TRPF4

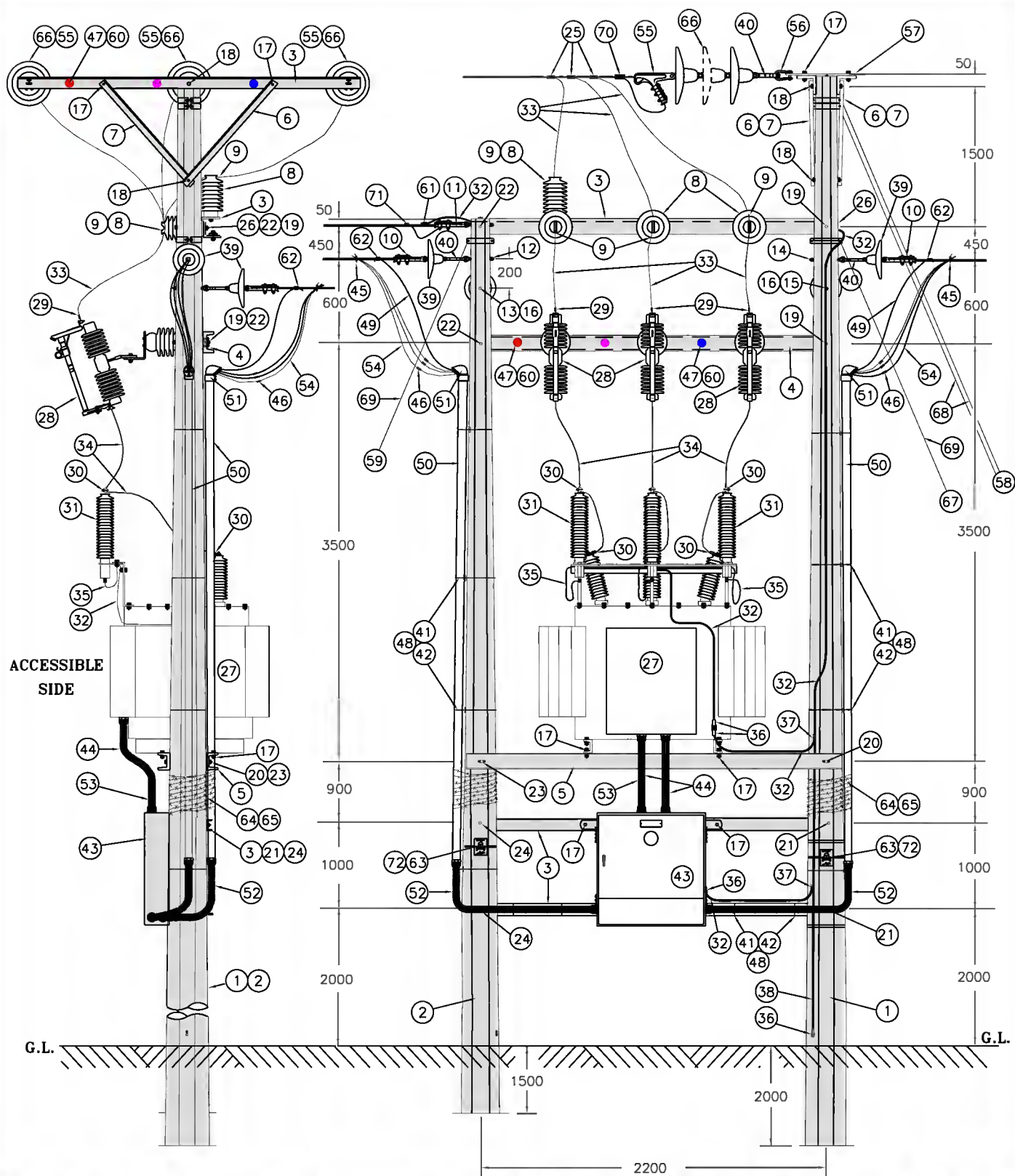
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DATE: DECEMBER 2005G



DRW.07-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	2D-SDMS-D1	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	2D-SDMS-D2	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	2D-SDMS-D2	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	2D-SDMS-D2	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	2D-SDMS-D2	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	2D-SDMS-D2	Fig. 4
08	4	Line Post Insulator	15-SDMS-D1	Clause 4.2.8
09	4 Set	Prefarmed Line Post Insulator Tap Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	2D-SDMS-D2	Fig. 3D
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
14	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
16	2	Eye Nut M16	2D-SDMS-D2	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
19	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
20	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quail	2D-SDMS-D2	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	2D-SDMS-D2	Fig. 5
27	1	Transformer, 200KVA.	51-SDMS-D1	
28	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-D1	
29	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug for 35mm ² Cu.	2D-SDMS-D2	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-D1	
32	17M	70mm ² Copper Bare Conductor		
33	15M	Quail Conductor, 67.44mm ² ACSR/AW	1D-SDMS-D1	
34	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn	11-SDMS-D1	
35	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-D2	
36	13	Terminal Lug for 70mm ² Cu.	12-SDMS-D1	
37	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45

**DRW.07A1/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guord	20-SOMS-02	Fig. 47
39	4	Suspension Insulotor (Single)	15-SOMS-01	
40	7	Clevis Eye Extension	20-SOMS-02	Fig. 21
41	15M	Stainless Steel Strop Bond	20-SOMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strop Bond	20-SDMS-02	Fig. 55
43	1	P.M.T. Cobinet 800A	31-SOMS-03	
44	6M	Coble - 4x300mm2 Al. Moin Incoming	11-SOMS-01	
45	4	Coble Tie	20-SDMS-02	Fig. 63
46	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-SDMS-02	Fig. 34
47	2 Set	Phosing Plotes (A,B,C)	20-SOMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stoinless Steel Strop	20-SOMS-02	Fig. 55
49	36M	Cu. Conductor Insuloted, stronded 70mm2 Soft Drown	11-SOMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weothen Heod, Al. for 70mm O.D. PVC Rigid Pipe	20-SOMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-SOMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm2 Incoming Coble	20-SOMS-02	
54	36M	Quodruplex Coble, 120mm2	11-SOMS-02	
55	3	Stroin Clomp, 3 U-Bolts for Merlin	20-SOMS-02	Fig. 29
56	3	Anchor Shockle	20-SOMS-02	Fig. 20
57	3	Double Arming Plote	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stoy Assembly	SOCS-01	Orw. 313
59	1 Set	L.T One stoy Assembly (Optional)	SDCS-01	Orw. 310
60	6	Phosing Plotes Mounting Brockets	20-SOMS-02	Fig. 54
61	1	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu.-70mm2 Al.	20-SOMS-02	
62	4	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu.-120mm2 Al.	20-SOMS-02	
63	2 Set	Donger Sign Plote Complete With Its Accessories	20-SOMS-02	Fig. 49
64	27M	Anti-Climbing Divice, Borbed Wire	20-SOMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulotor	15-SOMS-01	
67	1 Set	L.T One stoy Assembly On PMT-Structure/200	SOCS-01	Orw. 321
68	29M	Stoy wire 7/4, 12mm Dio, HDG Steel UTS 101kN Min.	SOCS-01	
69	26M	Stoy wire 7/3.25, 9.8mm Dio, HDG Steel UTS 65 Min. (Optional)	SOCS-01	
70	3	Porollet Groove Clomp for 3 U-Bolts type for Merlin ACSR	20-SOMS-02	Fig. 39
71	1	Porollet Groove Clomp for two Bolts type for Quoil ACSR	20-SOMS-02	Fig. 39
72	2 Set	Donger Sign Mounting Brockets	20-SOMS-02	Fig. 50

DRW.07A2/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

DRW.07A3/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SOMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SOMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SOMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SOMS-02	Fig. 4
08	4	Line Post Insulator	15-SOMS-01	Clause 4.2.8
09	4 Set	Prefarmed Line Post Insulator Tap Tie for Quail	20-SOMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SOMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SOMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 16
16	2	Eye Nut M16	20-SOMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
19	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
20	1	Machine Bolt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
21	2	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quail	20-SOMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SOMS-02	Fig. 5
27	1	Transformer, 300KVA.	51-SOMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
29	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 42
30	9	Terminal Lug for 35mm ² Cu.	20-SOMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SOMS-01	
32	17M	70mm ² Copper Bare Conductor		
33	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn	11-SOMS-01	
35	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	
36	13	Terminal Lug for 70mm ² Cu.	12-SOMS-01	
37	2	Crimp Cu. Connector for 70mm ²	20-SOMS-02	Fig. 45

**DRW.07B1/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guord	20-SOMS-02	Fig. 47
39	4	Suspension Insulotor (Single)	15-SOMS-01	
40	7	Clevis Eye Extension	20-SOMS-02	Fig. 21
41	15M	Stainless Steel Strop Bond	20-SOMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strop Bond	20-SDMS-02	Fig. 55
43	1	P.M.T. Cobinet 800A	31-SOMS-03	
44	6M	Coble - 4x300mm2 Al. Moin Incoming	11-SOMS-01	
45	4	Coble Tie	20-SDMS-02	Fig. 63
46	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-SDMS-02	Fig. 34
47	2 Set	Phosing Plotes (A,B,C)	20-SOMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stoinless Steel Strop	20-SOMS-02	Fig. 55
49	36M	Cu. Conductor Insuloted, stronded 70mm2 Soft Drown	11-SOMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weothen Heod, Al. for 70mm O.D. PVC Rigid Pipe	20-SOMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-SOMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm2 Incoming Coble	20-SOMS-02	
54	36M	Quodruplex Coble, 120mm2	11-SOMS-02	
55	3	Stroin Clomp, 3 U-Bolts for Merlin	20-SOMS-02	Fig. 29
56	3	Anchor Shockle	20-SOMS-02	Fig. 20
57	3	Double Arming Plote	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stoy Assembly	SOCS-01	Orw. 313
59	1 Set	L.T One stoy Assembly (Optional)	SDCS-01	Orw. 310
60	6	Phosing Plotes Mounting Brockets	20-SOMS-02	Fig. 54
61	1	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu.-70mm2 Al.	20-SOMS-02	
62	4	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu.-120mm2 Al.	20-SOMS-02	
63	2 Set	Donger Sign Plote Complete With Its Accessories	20-SOMS-02	Fig. 49
64	27M	Anti-Climbing Divice, Borbed Wire	20-SOMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulotor	15-SOMS-01	
67	1 Set	L.T One stoy Assembly On PMT-Structure/200	SOCS-01	Orw. 321
68	29M	Stoy wire 7/4, 12mm Dio, HDG Steel UTS 101kN Min.	SOCS-01	
69	26M	Stoy wire 7/3.25, 9.8mm Dio, HDG Steel UTS 65 Min. (Optional)	SOCS-01	
70	3	Porollet Groove Clomp for 3 U-Bolts type for Merlin ACSR	20-SOMS-02	Fig. 39
71	1	Porollet Groove Clomp for two Bolts type for Quoil ACSR	20-SOMS-02	Fig. 39
72	2 Set	Donger Sign Mounting Brockets	20-SOMS-02	Fig. 50

DRW.07B2/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV
 TERMINAL STRUCTURE WITH STAYS & PMT CABINET

DRW.07B3/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



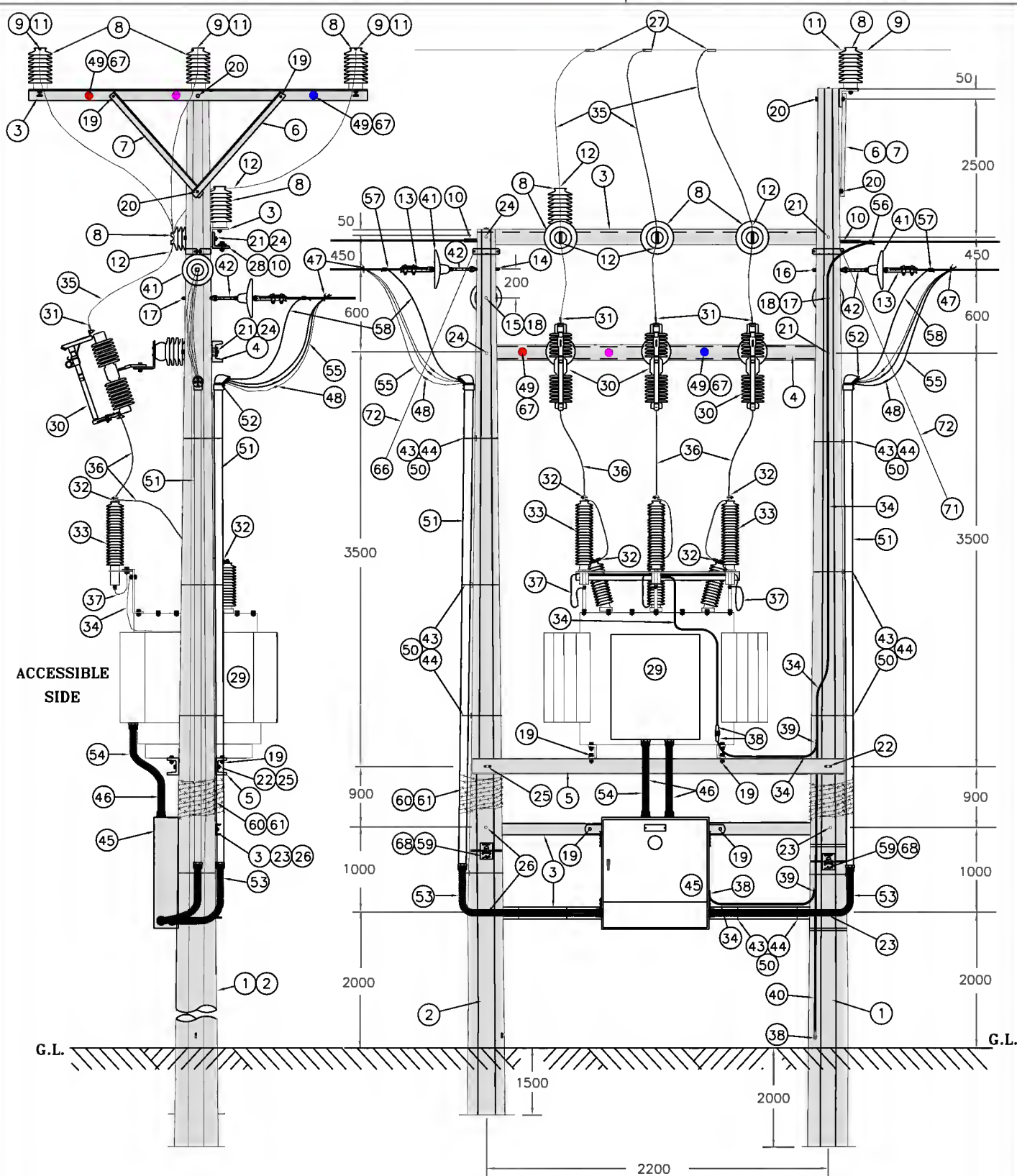
**200/300kVA PMT ON 13M POLE
H-FRAME TRANSFORMER STRUCTURE**



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DATE: DECEMBER 2005G



DRW.08-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SOMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SOMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Prefarmed Armour Rads for 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armour Rad for 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 38
11	3 Set	Prefarmed Line Post Insulator Tap Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Tap Tie for Quail	20-SOMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SOMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SOMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SOMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SOMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SOMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
31	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SOMS-02	
33	3	Surge Arrester, 33kV	35-SOMS-01	
34	15M	70mm ² Copper Bare Conductor		
35	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SOMS-01	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	

DRW.08A1/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm ² , Cu.	12-SDMS-D1	
39	2	Crimp Cu. Connector For 70mm ² .	2D-SDMS-D2	Fig. 45
40	1	Ground Wire Guard	2D-SDMS-D2	Fig. 47
41	4	Suspension Insulator	15-SDMS-D1	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	2D-SDMS-D2	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-D3	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SDMS-D1	
47	4	Cable Tie	2D-SDMS-D2	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SDMS-D2	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	2D-SDMS-D2	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	2D-SDMS-D2	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	2D-SDMS-D2	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	2D-SDMS-D2	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm ²	11-SDMS-D2	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	2D-SDMS-D2	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	2D-SDMS-D2	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	2D-SDMS-D2	Fig. 49
60	28M	Anti-Climbing Device, Barbed Wire	2D-SDMS-D2	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	2D-SDMS-D2	Fig. 13
62	1	Pole Numbering Base Plate	2D-SDMS-D2	Fig. 51
63	1 Set	Pole Numbering Plates	2D-SDMS-D2	Fig. 51
64	1	Equipment Numbering Base Plate	2D-SDMS-D2	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-D2	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-D1	Drw. 31D
67	6	Phasing Plates Mounting Brackets	2D-SDMS-D2	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SDMS-D2	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SDMS-D2	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-D2	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT- Structure/200	SDCS-D1	Drw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optional)	SDCS-D1	

DRW.08A2/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SOMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SOMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chunnel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Chunnel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	1	Broce-L 50x50x4x828mm L.G.	20-SOMS-02	Fig. 4
07	1	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SOMS-02	Fig. 4
08	7	Line Post Insulator	15-SOMS-01	Clause 4.2.8
09	3 Set	Prefarmed Armour Rods for 170.5mm ² ACSR/AW (Merlin)	20-SOMS-02	Fig. 38
10	2 Set	Prefarmed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 38
11	3 Set	Prefarmed Line Post Insulator Top Tie for Merlin ACSR With Armour	20-SOMS-02	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Top Tie for Quail	20-SOMS-02	Fig. 35
13	4	Stroin Clamp, Straight Line Deodend Type for Quadruplex	20-SOMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
18	2	Eye Nut, M16	20-SOMS-02	Fig. 18
19	10	Mochine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
20	2	Mochine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
21	2	Mochine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
26	2	Mochine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
27	3	Parallel Graave Compression Connector for Merlin - Quail	20-SOMS-02	Fig. 39
28	2	Eorthwire Support Plate, L 110x110x10x150mm L.G.	20-SOMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SOMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
31	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SOMS-02	
33	3	Surge Arrester, 33kV	35-SOMS-01	
34	15M	70mm ² Copper Bore Conductor		
35	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
36	9M	Cu. Conductor, Insuloted stronded 35mm ² Soft Drown	11-SOMS-01	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	

DRW.08B1/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm ² , Cu.	12-SDMS-D1	
39	2	Crimp Cu. Connector For 70mm ² .	2D-SDMS-D2	Fig. 45
40	1	Ground Wire Guard	2D-SDMS-D2	Fig. 47
41	4	Suspension Insulator	15-SDMS-D1	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	2D-SDMS-D2	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-D3	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SDMS-D1	
47	4	Cable Tie	2D-SDMS-D2	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SDMS-D2	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	2D-SDMS-D2	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	2D-SDMS-D2	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	2D-SDMS-D2	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	2D-SDMS-D2	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al., 120mm ²	11-SDMS-D2	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	2D-SDMS-D2	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	2D-SDMS-D2	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	2D-SDMS-D2	Fig. 49
60	28M	Anti-Climbing Device, Barbed Wire	2D-SDMS-D2	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	2D-SDMS-D2	Fig. 13
62	1	Pole Numbering Base Plate	2D-SDMS-D2	Fig. 51
63	1 Set	Pole Numbering Plates	2D-SDMS-D2	Fig. 51
64	1	Equipment Numbering Base Plate	2D-SDMS-D2	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-D2	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-D1	Drw. 31D
67	6	Phasing Plates Mounting Brackets	2D-SDMS-D2	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SDMS-D2	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SDMS-D2	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-D2	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-D1	Drw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-D1	

DRW.08B2/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

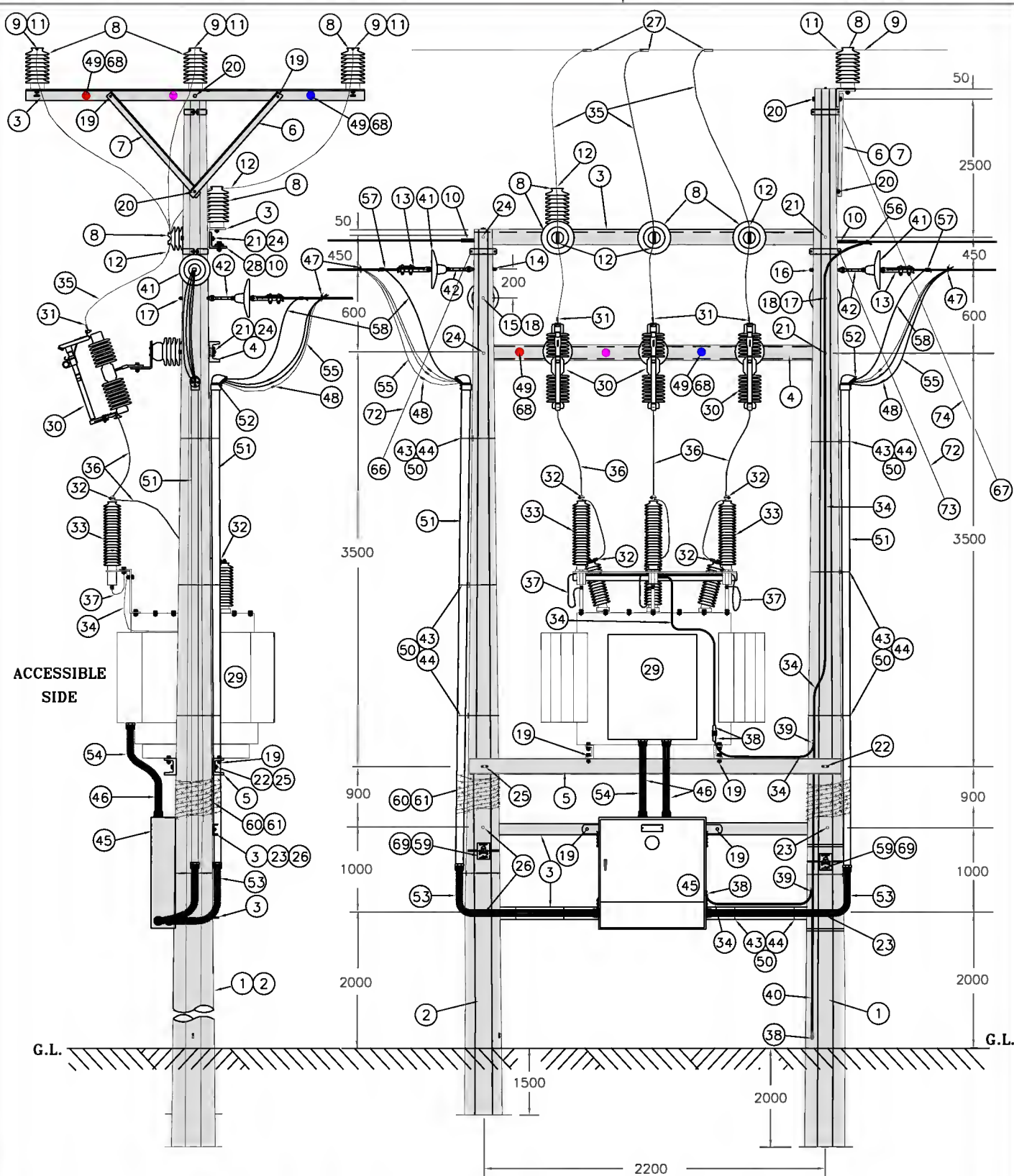
TRPF4



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SDCS-01

DATE: DECEMBER 2005G



DRW.09-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	2D-SDMS-D1	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-D2	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-D2	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-D2	Fig. 4
08	7	Line Post Insulator	15-SDMS-D1	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm ² ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	2D-SDMS-D2	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	2D-SDMS-D2	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer, 1 Spring Washer	2D-SDMS-D2	Fig. 16
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	2D-SDMS-D2	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-D2	Fig. 6
29	1	Transformer, 200KVA.	51-SDMS-D1	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-D1	
31	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SDMS-D2	
33	3	Surge Arrester, 33kV	35-SDMS-D1	
34	15M	70mm ² Copper Bare Conductor		
35	18M	Quail Conductor, 67.44mm ² ACSR/AW	1D-SDMS-D1	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-D1	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

DRW.09A1/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminol Lugs for 70mm ² , Cu.	12-SDMS-01	
39	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guord	20-SOMS-02	Fig. 47
41	4	Suspension Insulotor	15-SOMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SOMS-02	Fig. 21
43	15M	Stainless Steel Strop Bond	20-SOMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	1	P.M.T. Cobinet 800A.	31-SDMS-03	
46	6M	Coble Aluminium- 4x300mm ² Moin Incoming	11-SOMS-01	
47	4	Coble Tie	20-SOMS-02	Fig. 63
48	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phosing Plotes (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SOMS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Heod, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Coble.	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incaming Cable.	20-SOMS-02	
55	36M	Quodruplex Coble, Al. 120mm ²	11-SOMS-02	
56	1	Bi-Metolic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
57	4	Bi-Metolic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insuloted stronded 70mm ² Soft Drown		
59	2 Set	Donger Sign Plote Complete With Its Accessories	20-SOMS-02	Fig. 49
60	28M	Anti-Climbing Divice, Borbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Borbed Wire	20-SOMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plotes	20-SOMS-02	Fig. 51
64	1	Equipment Numbering Bose Plote	20-SOMS-02	Fig. 52
65	1 Set	Equipment Numbering Plotes	20-SOMS-02	Fig. 52
66	1 Set	L.T One Stoy Assembly (Optionol)	SOCS-01	Orw. 310
67	1 Set	M.V-S.C One Stay Assembly	SOCS-01	Orw. 312
68	6	Phosing Plotes Mounting Brockets	20-SOMS-02	Fig. 54
69	2 Set	Donger Sign Maunting Brockets	20-SOMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
71	12	Terminol Lugs for Quodruplex Coble 4X120mm ² Al.	12-SDMS-02	Fig. 4
72	26M	Stoy wire 7/3.25, 9.8mm Dio, HDG steel, UTS 65kN Min. (Optionol)	SOCS-01	
73	1 Set	L.T One Stoy Assembly On PMT-Structure/200	SOCS-01	Orw. 321
74	16M	Stoy wire 7/4, 12mm Dio, HDG steel, UTS 101kN (Min.)	SOCS-01	

DRW.09A2/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	2D-SDMS-D1	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	2D-SDMS-D2	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	2D-SDMS-D2	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	2D-SDMS-D2	Fig. 4
08	7	Line Post Insulator	15-SDMS-D1	Clause 4.2.8
09	3 Set	Prefarmed Armour Rads for 170.5mm ² ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armour Rad for 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38
11	3 Set	Prefarmed Line Post Insulator Side Tie for Merlin ACSR With Armour	2D-SDMS-D2	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Top Tie for Quail	2D-SDMS-D2	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 16
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	2D-SDMS-D2	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-D2	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-D1	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-D1	
31	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SDMS-D2	
33	3	Surge Arrester, 33kV	35-SDMS-D1	
34	15M	70mm ² Copper Bare Conductor		
35	18M	Quail Conductor, 67.44mm ² ACSR/AW	1D-SDMS-D1	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-D1	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.09B1/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm ² , Cu.	12-SDMS-01	
39	2	Crimp Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SOMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SOMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SOMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SOMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D for 4x300mm ² Incoming Cable	20-SOMS-02	
55	36M	Quadruplex Cable, Al. 120mm ²	11-SOMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	11-SOMS-01	Fig. 49
60	28M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	20-SOMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SOMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SOMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 310
67	1 Set	M.V-S.C One Stay Assembly	SOCS-01	Orw. 312
68	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02	Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SOCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SOCS-01	Orw. 321
74	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SOCS-01	

**DRW.09B2/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

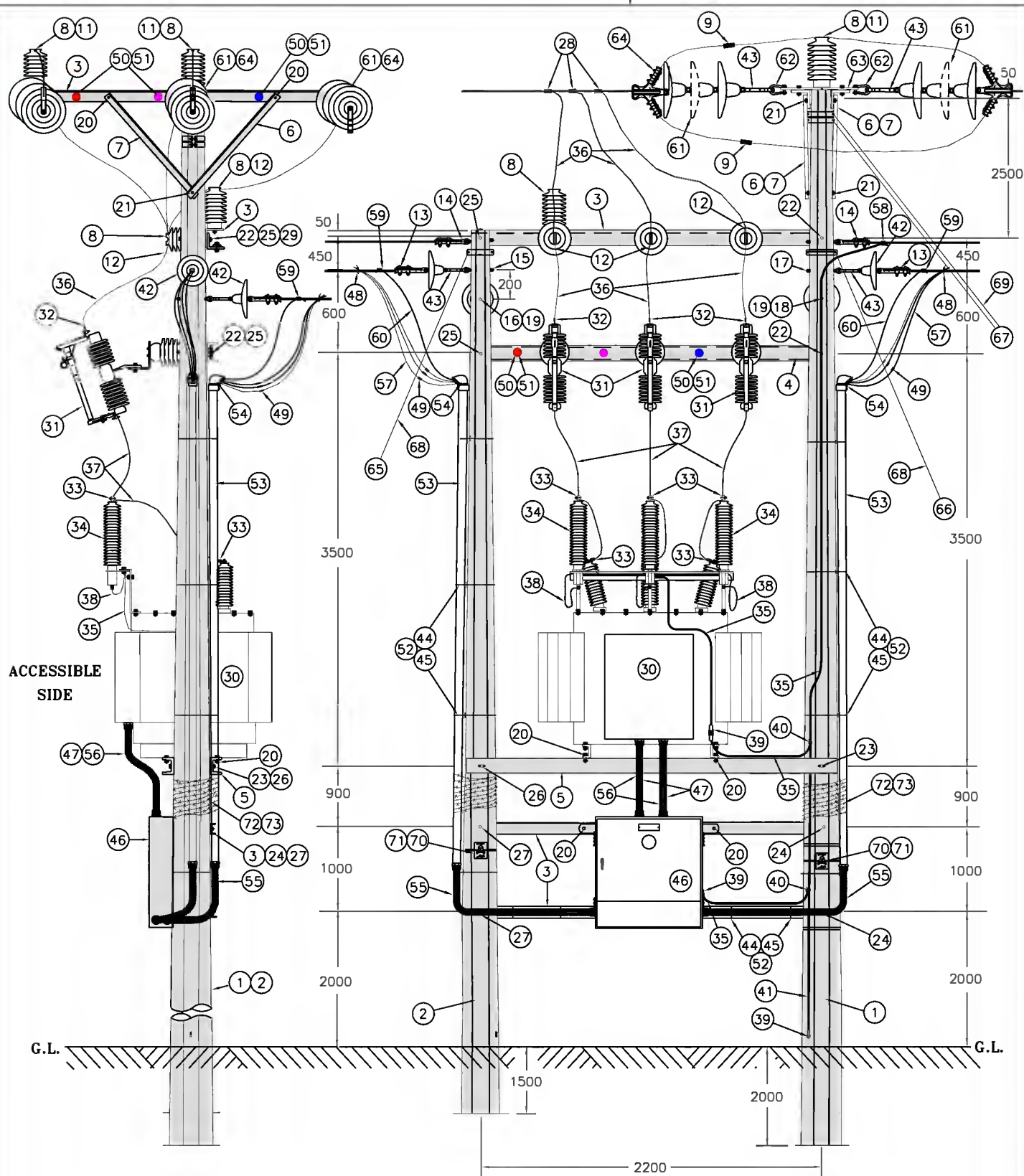
TRPF4



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DATE: DECEMBER 2005G



DRW.10-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 200KVA.	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm ² Copper Bare Conductor		
36	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-01	

DRW.10A1/3-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm ² , Cu.	12-SOMS-01	
40	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
41	1	Ground Wire Guard	20-SOMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SOMS-01	Page.23
43	10	Clevis Eye Extension	20-SOMS-02	Fig. 21
44	15M	Stainless Steel Strop Bond	20-SOMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strop Bond	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SOMS-03	
47	6M	Coble Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
48	4	Coble Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stoinless Steel Strop	20-SOMS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Coble.	20-SDMS-02	
57	36M	Quadruplex Coble, 120mm ²	11-SOMS-02	
58	1	Bi-Metalic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn	11-SOMS-01	
61	6 Set	Suspension Insulator	15-SOMS-01	Page. 23
62	6	Anchor Shackle	20-SOMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SOMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SOMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SOCS-01	Orw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SOCS-01	
69	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SOCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
72	28M	Anti-Climbing Divice, Barbed Wire	20-SOMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Borbed Wire	20-SOMS-02	Fig. 13

DRW.10A2/3-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Prefarmed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 300KVA	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm ² Copper Bare Conductor		
36	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-01	

**DRW.10B1/3-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm ² , Cu.	12-SOMS-01	
40	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
41	1	Ground Wire Guard	20-SOMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SOMS-01	Page.23
43	10	Clevis Eye Extension	20-SOMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SOMS-03	
47	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SOMS-02	Fig. 55
53	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm ²	11-SOMS-02	
58	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
59	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn	11-SOMS-01	
61	6 Set	Suspension Insulator	15-SOMS-01	Page. 23
62	6	Anchor Shackle	20-SOMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SOMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SOMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Orw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Orw. 313
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
72	28M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SOMS-02	Fig. 13

DRW.10B2/3-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

TRPF4

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-SOMS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SOMS-02	Fig. 4
08	4	Line Post Insulator	15-SOMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulator Top Tie for Quoil	20-SOMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SOMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quoil ACSR	20-SOMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SOMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
19	2	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
20	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
25	3	Parallel Groove Compression Connector for Merlin - Quoil	20-SOMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SOMS-02	Fig. 5
27	1	Transformer, 200KVA.	51-SOMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
29	3	Terminal Plug For 67.44mm ² ACSR/AW (Quoil)	20-SOMS-02	Fig. 42
30	9	Terminal Lug for 35mm ² Cu.	20-SOMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SOMS-01	
32	17M	70mm ² Copper Bare Conductor		
33	18M	Quoil Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn	11-SOMS-01	
35	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	
36	13	Terminal Lug for 70mm ² Cu.	12-SOMS-01	
37	2	Crimp Cu. Connector for 70mm ²	20-SOMS-02	Fig. 45

**DRW.11A1/3-200kVA TRANSFORMER PLATFORM-13M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SOMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable - 4x300mm ² Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm ² Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm ² Incoming Cable	20-SOMS-02	
54	36M	Quadruplex Cable, 120mm ²	11-SDMS-02	
55	3	Strain Clamp, 3 U-Balts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	SOCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groave Clamp for 3 U-Balts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groave Clamp for two Balts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50

DRW.11A2/3-200kVA TRANSFORMER PLATFORM-13M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SOMS-01	Page 33
03	5	Crossorm-L 100x100x12x2400mm L.G.	20-SOMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chunnel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Chunnel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Prefomed Line Post Insulator Top Tie for Quoil	20-SOMS-02	Fig. 35
10	4	Stroin Clomp, Stroight Line Deodend Type for Quodruplex	20-SOMS-02	Fig. 30
11	1	Stroin Clomp, Stroight Line Deodend Type for Quoil ACSR	20-SOMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SOMS-02	Fig. 18
17	18	Mochine Bolt, M20x60mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
18	2	Mochine Bolt, M20x225mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
19	2	Mochine Bolt, M20x265mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
20	1	Mochine Bolt, M20x365mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Mochine Bolt, M20x380mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	2	Mochine Bolt, M16x165mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Mochine Bolt, M16x300mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
25	3	Porollet Groove Compression Connector for Merlin - Quoil	20-SOMS-02	Fig. 39
26	2	Eorthwire Suspension Support, L 110x110x10x150mm Lg.	20-SOMS-02	Fig. 5
27	1	Transformer, 300KVA.	51-SOMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
29	3	Terminol Plug For 67.44mm ² ACSR/AW (Quoil)	20-SOMS-02	Fig. 42
30	9	Terminol Lug for 35mm ² Cu.	20-SOMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SOMS-01	
32	17M	70mm ² Copper Bore Conductor		
33	18M	Quoil Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
34	9M	Cu. Conductor, Insuloted Stronded 35mm ² Soft Drown	11-SOMS-01	
35	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	
36	13	Terminol Lug for 70mm ² Cu.	12-SOMS-01	
37	2	Crimpit Cu. Connector for 70mm ²	20-SOMS-02	Fig. 45

**DRW.11B1/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: SEPTEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SOMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable - 4x300mm ² Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm ² Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm ² Incoming Cable	20-SOMS-02	
54	36M	Quadruplex Cable, 120mm ²	11-SDMS-02	
55	3	Strain Clamp, 3 U-Balts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	SOCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groave Clamp for 3 U-Balts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groave Clamp for two Balts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50

**DRW.11B2/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

DRW.11B3/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



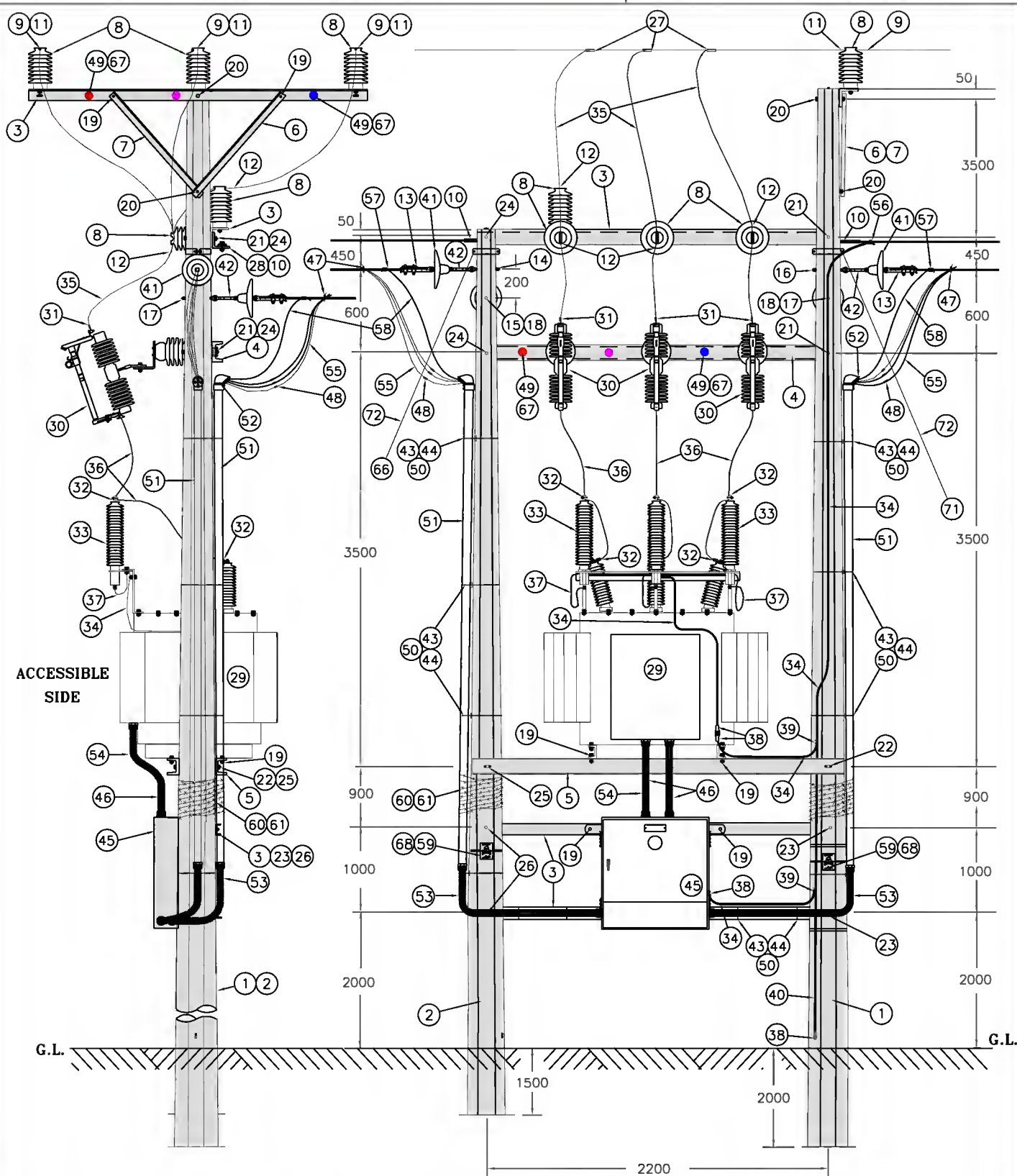
**200/300kVA PMT ON 14M POLE
H-FRAME TRANSFORMER STRUCTURE**



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SDCS-01

DATE: DECEMBER 2005G



DRW.12-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	2D-SDMS-D1	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-D2	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-D2	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-D2	Fig. 4
08	7	Line Post Insulator	15-SDMS-D1	Clause 4.2.8
09	3 Set	Prefarmed Armour Rads for 170.5mm ² ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armour Rad for 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38
11	3 Set	Prefarmed Line Post Insulator Tap Tie for Merlin ACSR With Armour	2D-SDMS-D2	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Tap Tie for Quail	2D-SDMS-D2	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
17	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	2D-SDMS-D2	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-D2	Fig. 6
29	1	Transformer, 200KVA.	51-SDMS-D1	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-D1	
31	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SDMS-D2	
33	3	Surge Arrester, 33kV	35-SDMS-D1	
34	15M	70mm ² Copper Bare Conductor		
35	21M	Quail Conductor, 67.44mm ² ACSR/AW	1D-SDMS-D1	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-D1	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

DRW.12A1/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm ² , Cu.	12-SDMS-01	
39	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SOMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SOMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SOMS-02	
55	36M	Quadruplex Cable, Al. 120mm ²	11-SDMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
60	29M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	20-SOMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SOMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SOCS-01	Drw. 310
67	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT- Structure/200	SOCS-01	Drw. 321
72	28M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optional)	SOCS-01	

DRW.12A2/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	2D-SDMS-D1	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-D2	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-D2	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-D2	Fig. 4
08	7	Line Post Insulator	15-SDMS-D1	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm ² ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38
11	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR With Armour	2D-SDMS-D2	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	2D-SDMS-D2	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
17	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	2D-SDMS-D2	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-D2	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-D1	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-D1	
31	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SDMS-D2	
33	3	Surge Arrester, 33kV	35-SDMS-D1	
34	15M	70mm ² Copper Bare Conductor		
35	21M	Quail Conductor, 67.44mm ² ACSR/AW	1D-SDMS-D1	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-D1	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

DRW.12B1/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRPF4



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminol Lugs for 70mm ² , Cu.	12-SDMS-01	
39	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SOMS-02	Fig. 21
43	15M	Stainless Steel Strop Bond	20-SDMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strop Bond	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SOMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strop	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SOMS-02	
55	36M	Quadruplex Cable, Al., 120mm ²	11-SDMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
60	29M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SOMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SOMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Story Assembly (Optional)	SOCS-01	Drw. 310
67	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
68	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
69	16	Terminol Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
70	12	Terminol Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Story Assembly On PMT-Structure/200	SOCS-01	Drw. 321
72	28M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SOCS-01	

DRW.12B2/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

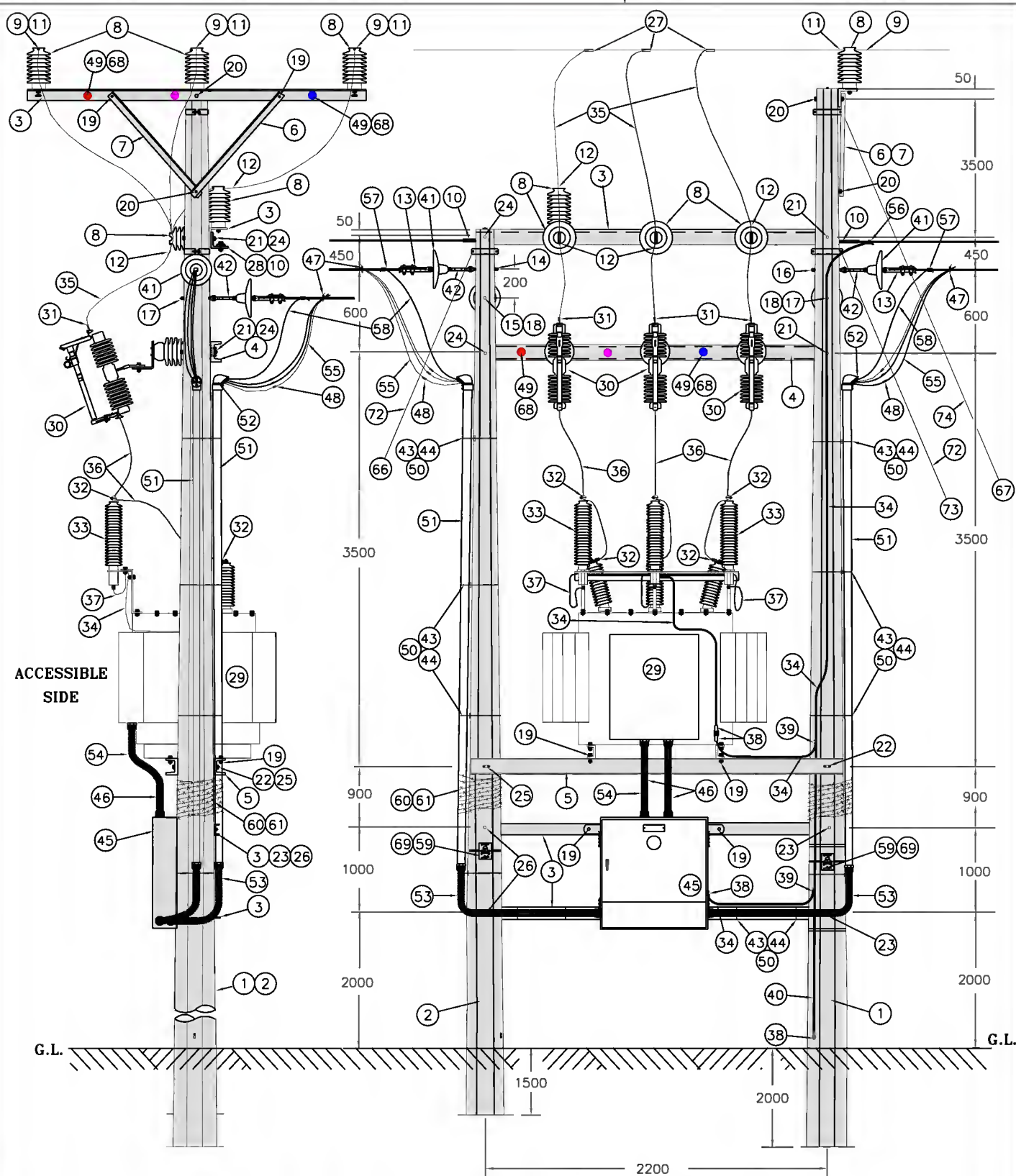
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DATE: DECEMBER 2005G



DRW.13-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SOMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SOMS-02	Fig. 4
08	7	Line Post Insulator	15-SOMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SOMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SOMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SOMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
18	2	Eye Nut, M16	20-SOMS-02	Fig. 18
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
21	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SOMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SOMS-02	Fig. 6
29	1	Transformer, 200KVA.	51-SOMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
31	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SOMS-02	
33	3	Surge Arrester, 33kV	35-SOMS-01	
34	15M	70mm ² Copper Bare Conductor		
35	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SOMS-01	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	

DRW.13A1/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminol Lugs for 70mm ² , Cu.	12-SDMS-01	
39	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SOMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SOMS-02	Fig. 21
43	15M	Stainless Steel Strop Bond	20-SOMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strop Bond	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SOMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strop	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable.	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SOMS-02	
55	36M	Quadruplex Cable, Al. 120mm ²	11-SOMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
60	29M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Barbed Wire	20-SOMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SOMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SOMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Story Assembly (Optional)	SDCS-01	Orw. 310
67	1 Set	M.V-S.C One Story Assembly	SDCS-01	Orw. 312
68	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
70	16	Terminol Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
71	12	Terminol Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02	Fig. 4
72	28M	Story wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
73	1 Set	L.T One Story Assembly On PMT-Structure/200	SDCS-01	Orw. 321
74	17M	Story wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SDCS-01	

**DRW.13A2/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Prefarmed Armour Rads for 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Prefarmed Line Post Insulator Side Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Tap Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 16
19	10	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transformer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
31	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm ² Copper Bare Conductor		
35	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
36	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-01	
37	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

**DRW.13B1/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminal Lugs for 70mm ² , Cu.	12-SDMS-01	
39	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
40	1	Ground Wire Guard	20-SOMS-02	Fig. 47
41	4	Suspension Insulator	15-SOMS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SOMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SOMS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
47	4	Cable Tie	20-SOMS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-SOMS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. for 70mm O.D. Polyethylene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Polyethylene Rigid Pipe for Outgoing Cable	20-SOMS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D for 4x300mm ² Incoming Cable	20-SOMS-02	
55	36M	Quadruplex Cable, Al. 120mm ²	11-SOMS-02	
56	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02	
57	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
58	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn		
59	2 Set	Danger Sign Plate Complete With Its Accessories	11-SOMS-01	Fig. 49
60	29M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	20-SOMS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plates	20-SOMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SOMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SOMS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 310
67	1 Set	M.V-S.C One Stay Assembly	SOCS-01	Orw. 312
68	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
69	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
70	16	Terminal Lugs for Cable 4X300mm ² Al.	12-SOMS-02	Fig. 4
71	12	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02	Fig. 4
72	28M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SOCS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	SOCS-01	Orw. 321
74	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	SOCS-01	

**DRW.13B2/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET**

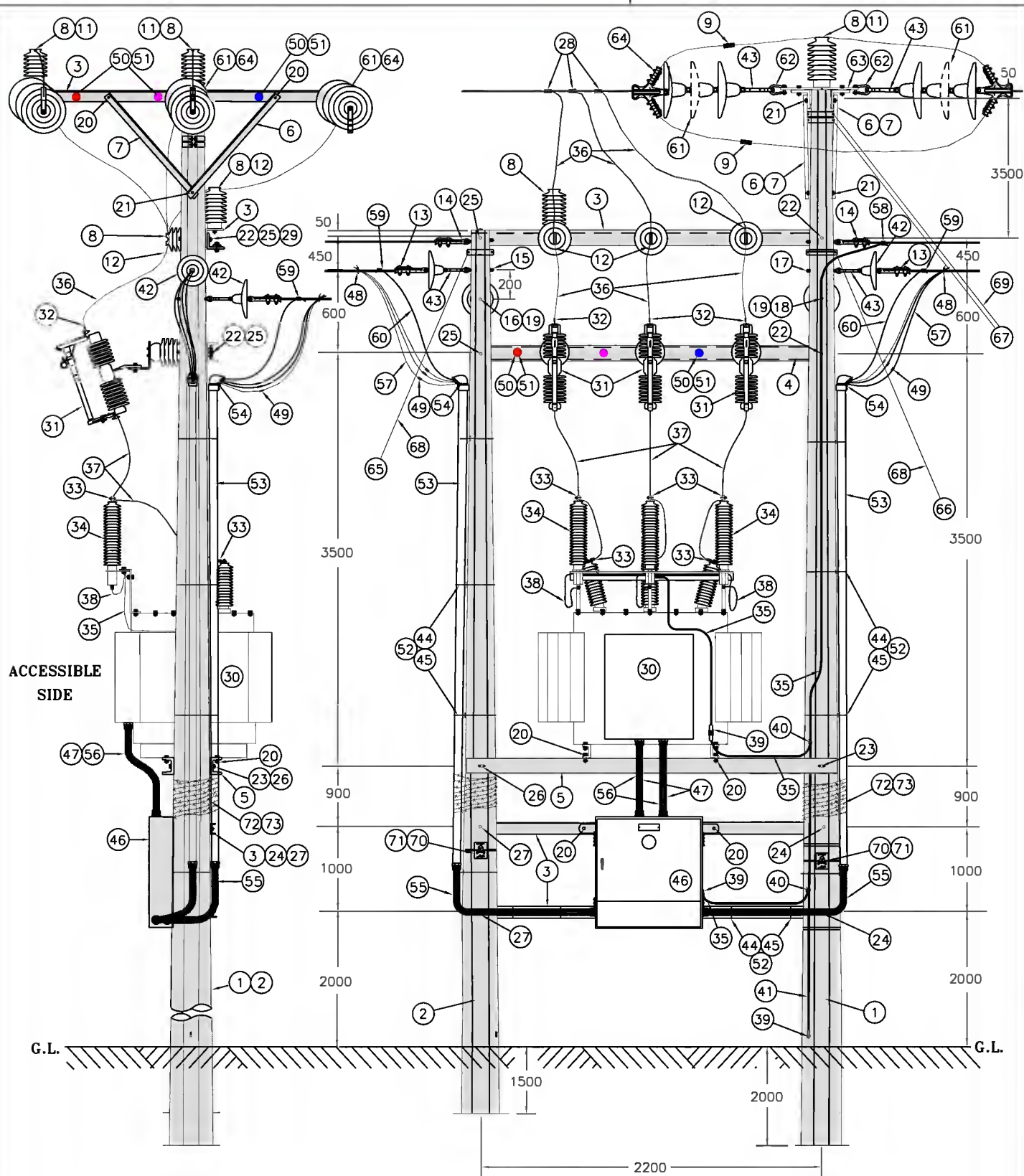
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SDCS-01

DATE: DECEMBER 2005G



DRW.14-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Groove Compression Connector for 170.5mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Prefarmed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 200KVA.	51-SDMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
32	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm ² Copper Bare Conductor		
36	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SDMS-01	

DRW.14A1/3-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm ² , Cu.	12-SOMS-01	
40	2	Crimp Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
41	1	Ground Wire Guard	20-SOMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SOMS-01	Page.23
43	10	Clevis Eye Extension	20-SOMS-02	Fig. 21
44	15M	Stainless Steel Strop Bond	20-SOMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strop Bond	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SOMS-03	
47	6M	Coble Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
48	4	Coble Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stoinless Steel Strop	20-SOMS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Coble.	20-SDMS-02	
57	36M	Quadruplex Coble, 120mm ²	11-SOMS-02	
58	1	Bi-Metalic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn	11-SOMS-01	
61	6 Set	Suspension Insulator	15-SOMS-01	Page. 23
62	6	Anchor Shackle	20-SOMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SOMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SOMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SOCS-01	Orw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
68	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SOCS-01	
69	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SOCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
72	29M	Anti-Climbing Divice, Barbed Wire	20-SOMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Borbed Wire	20-SOMS-02	Fig. 13

DRW.14A2/3-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

TRPF4

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossorm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chunnel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Chunnel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-SOMS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SOMS-02	Fig. 4
08	6	Line Post Insulator	15-SOMS-01	Clause 4.2.8
09	3	Porollet Groove Compression Connector for 170.5mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Porollet Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SOMS-02	Fig. 39
11	2 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR	20-SOMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SOMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SOMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
19	2	Eye Nut, M16	20-SOMS-02	Fig. 16
20	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
21	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
26	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
27	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
28	3	Porollet Groove Compression Connector for Merlin - Quail	20-SOMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 300KVA	51-SOMS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
32	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SOMS-02	Fig. 42
33	9	Terminal Lug for 35mm ² Cu.	20-SOMS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-SOMS-01	
35	15M	70mm ² Copper Bare Conductor		
36	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
37	9M	Cu. Conductor, Insulated stranded 35mm ² Soft Drawn	11-SOMS-01	

DRW.14B1/3-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

TRPF4



SEC DISTRIBUTION CONSTRUCTION STANDARDS

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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm ² , Cu.	12-SOMS-01	
40	2	Crimpfit Cu. Connector For 70mm ² .	20-SOMS-02	Fig. 45
41	1	Ground Wire Guard	20-SOMS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-SOMS-01	Page.23
43	10	Clevis Eye Extension	20-SOMS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-SOMS-02	Fig. 55
45	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-SOMS-03	
47	6M	Cable Aluminium- 4x300mm ² Main Incoming	11-SOMS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² -120mm ²	20-SOMS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets	20-SOMS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SOMS-02	Fig. 55
53	4	Polyethylene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm ² Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm ²	11-SOMS-02	
58	1	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-70mm ² Al.	20-SOMS-02	
59	4	Bi-Metallic connector, 2Bolts type for 70mm ² Cu.-120mm ² Al.	20-SOMS-02	
60	36M	Cu. Conductor, Insulated stranded 70mm ² Soft Drawn	11-SOMS-01	
61	6 Set	Suspension Insulator	15-SOMS-01	Page. 23
62	6	Anchor Shackle	20-SOMS-02	Fig. 20
63	3	Double Arming Plate, 100x12x700mm Lg.	20-SOMS-02	Fig. 07
64	6	Strain Clamp, 3U-Bolts type for Merlin	20-SOMS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 310
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Orw. 310
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Orw. 313
68	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
70	2 Set	Danger Sign Plate Complete With Its Accessories	20-SOMS-02	Fig. 49
71	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50
72	29M	Anti-Climbing Device, Barbed Wire	20-SOMS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Barbed Wire	20-SOMS-02	Fig. 13

DRW.14B2/3-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

TRPF4

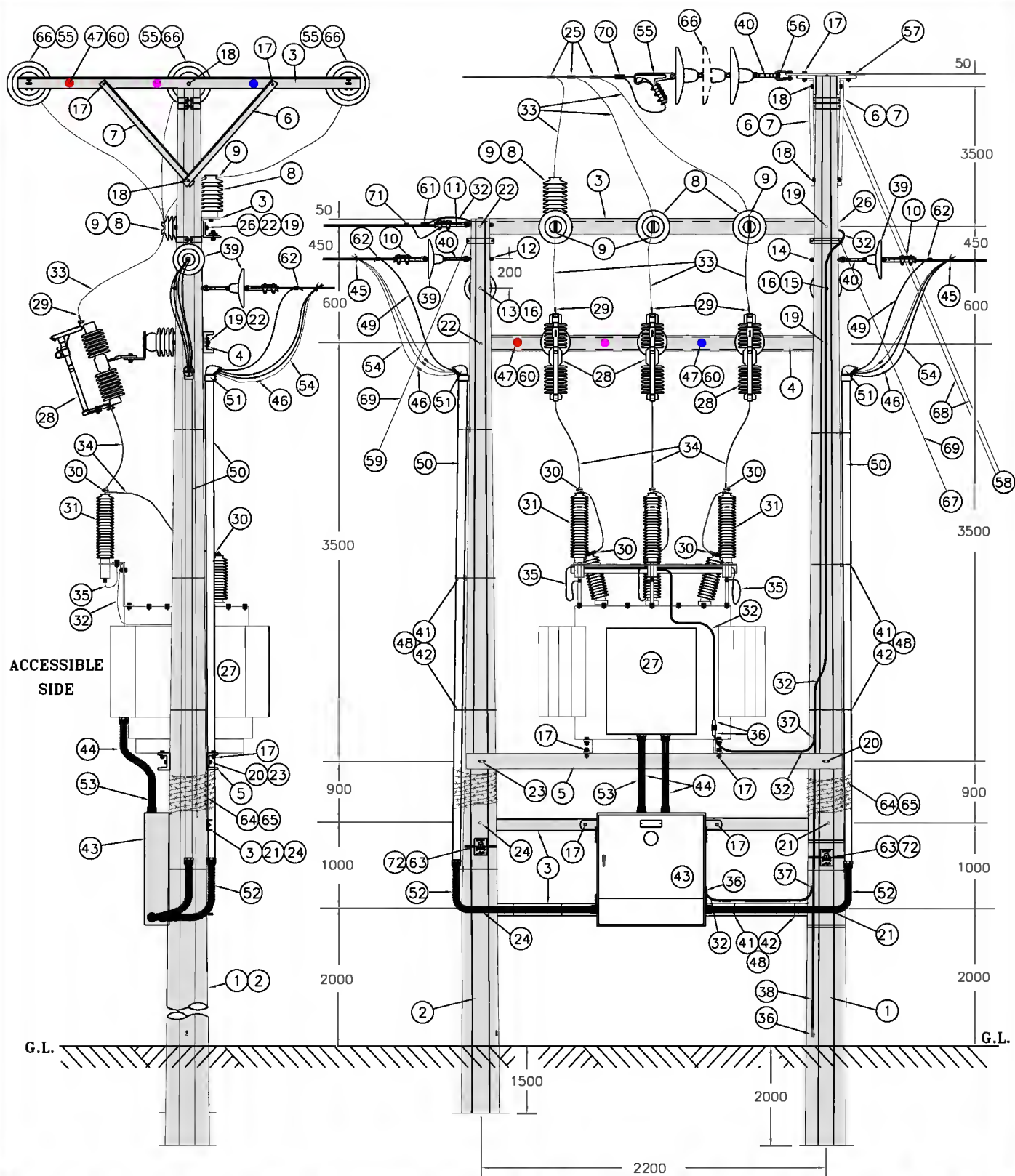
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DRW.15-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SOMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SOMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SOMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chunnel-C 125x65x65x6x2400mm L.G.	20-SOMS-02	Fig. 2
05	2	Transformer Mounting Chunnel-C 150x75x75x6.5x2400mm L.G.	20-SOMS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulator Top Tie for Quoil	20-SOMS-02	Fig. 35
10	4	Stroin Clomp, Stroight Line Deodend Type for Quodruplex	20-SOMS-02	Fig. 30
11	1	Stroin Clamp, Stroight Line Deadend Type for Quoil ACSR	20-SOMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SOMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SOMS-02	Fig. 18
17	18	Mochine Bolt, M20x60mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 14
18	2	Mochine Bolt, M20x225mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
19	2	Mochine Bolt, M20x285mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
20	1	Mochine Bolt, M20x365mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Mochine Bolt, M20x400mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
22	2	Mochine Bolt, M16x165mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
23	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
24	2	Mochine Bolt, M16x300mm With Nut, 2 Flot Washers & 1 Spring Washer	20-SOMS-02	Fig. 15
25	3	Porollet Groove Compression Connector for Merlin - Quoil	20-SOMS-02	Fig. 39
26	2	Eorthwire Suspension Support, L 110x110x10x150mm Lg.	20-SOMS-02	Fig. 5
27	1	Tronsformer, 200KVA.	51-SOMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SOMS-01	
29	3	Terminol Plug For 67.44mm ² ACSR/AW (Quoil)	20-SOMS-02	Fig. 42
30	9	Terminol Lug for 35mm ² Cu.	20-SOMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SOMS-01	
32	17M	70mm ² Copper Bore Conductor		
33	21M	Quoil Conductor, 67.44mm ² ACSR/AW	10-SOMS-01	
34	9M	Cu. Conductor, Insuloted Stronded 35mm ² Soft Drown	11-SOMS-01	
35	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SOMS-02	
36	13	Terminol Lug for 70mm ² Cu.	12-SOMS-01	
37	2	Crimpit Cu. Connector for 70mm ²	20-SOMS-02	Fig. 45

**DRW.15A1/3-200kVA TRANSFORMER PLATFORM-14M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SOMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6M	Cable – 4x300mm ² Al. Main Incoming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm ² –120mm ²	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insulated, stranded 70mm ² Soft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm ² Incoming Cable	20-SOMS-02	
54	36M	Quadruplex Cable, 120mm ²	11-SDMS-02	
55	3	Strain Clamp, 3 U-Balts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shackle	20-SDMS-02	Fig. 20
57	3	Double Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V–S.C Two stay Assembly	SOCS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Mounting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Connector, 2 Bolt Type for 70mm ² Cu.–70mm ² Al.	20-SDMS-02	
62	4	Bi-Mettalic Connector, 2 Bolt Type for 70mm ² Cu.–120mm ² Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
64	29M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT–Structure/200	SDCS-01	Drw. 321
68	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Groave Clamp for 3 U-Balts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Groave Clamp for two Balts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Mounting Brackets	20-SOMS-02	Fig. 50

**DRW.15A2/3-200kVA TRANSFORMER PLATFORM-14M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transformer Mounting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Prefarmed Line Post Insulator Tap Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SDMS-02	Fig. 18
17	18	Machine Bolt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
20	1	Machine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Bolt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Bolt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Bolt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	3	Parallel Graave Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
26	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
27	1	Transformer, 300KVA.	51-SDMS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
29	3	Terminal Plug for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-01	
32	17M	70mm ² Copper Bare Conductor		
33	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
34	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn	11-SDMS-01	
35	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
36	13	Terminal Lug for 70mm ² Cu.	12-SDMS-01	
37	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45

**DRW.15B1/3-300kVA TRANSFORMER PLATFORM-14M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**



SEC DISTRIBUTION CONSTRUCTION STANDARDS

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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	1	Ground Wire Guord	20-SDMS-02	Fig. 47
39	4	Suspension Insulotor (Single)	15-SOMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strop Bond	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strop Bond	20-SDMS-02	Fig. 55
43	1	P.M.T. Cobinet 800A	31-SDMS-03	
44	6M	Coble - 4x300mm ² Al. Moin Incoming	11-SDMS-01	
45	4	Coble Tie	20-SDMS-02	Fig. 63
46	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm ² -120mm ²	20-SDMS-02	Fig. 34
47	2 Set	Phosing Plotes (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stoinless Steel Strop	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insuloted, stronded 70mm ² Soft Drown	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Heod, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm ² Incoming Coble	20-SOMS-02	
54	36M	Quodruplex Coble, 120mm ²	11-SDMS-02	
55	3	Stroin Clomp, 3 U-Bolts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shockle	20-SDMS-02	Fig. 20
57	3	Double Arming Plote	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stoy Assembly	SOCS-01	Drw. 313
59	1 Set	L.T One stoy Assembly (Optionol)	SDCS-01	Drw. 310
60	6	Phosing Plotes Mounting Brockets	20-SDMS-02	Fig. 54
61	1	Bi-Mettolic Connector, 2 Bolt Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02	
62	4	Bi-Mettolic Connector, 2 Bolt Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02	
63	2 Set	Donger Sign Plote Complete With Its Accessories	20-SDMS-02	Fig. 49
64	29M	Anti-Climbing Device, Borbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulotor	15-SDMS-01	
67	1 Set	L.T One stoy Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	34M	Stoy wire 7/4, 12mm Dio, HDG Steel UTS 101kN Min.	SDCS-01	
69	28M	Stoy wire 7/3.25, 9.8mm Dio, HDG Steel UTS 65 Min. (Optionol)	SDCS-01	
70	3	Porollet Groove Clomp for 3 U-Bolts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Porollet Groove Clomp for two Bolts type for Quoil ACSR	20-SDMS-02	Fig. 39
72	2 Set	Donger Sign Mounting Brockets	20-SOMS-02	Fig. 50

**DRW.15B2/3-300kVA TRANSFORMER PLATFORM-14M MV & 10M LV
TERMINAL STRUCTURE WITH STAYS & PMT CABINET**

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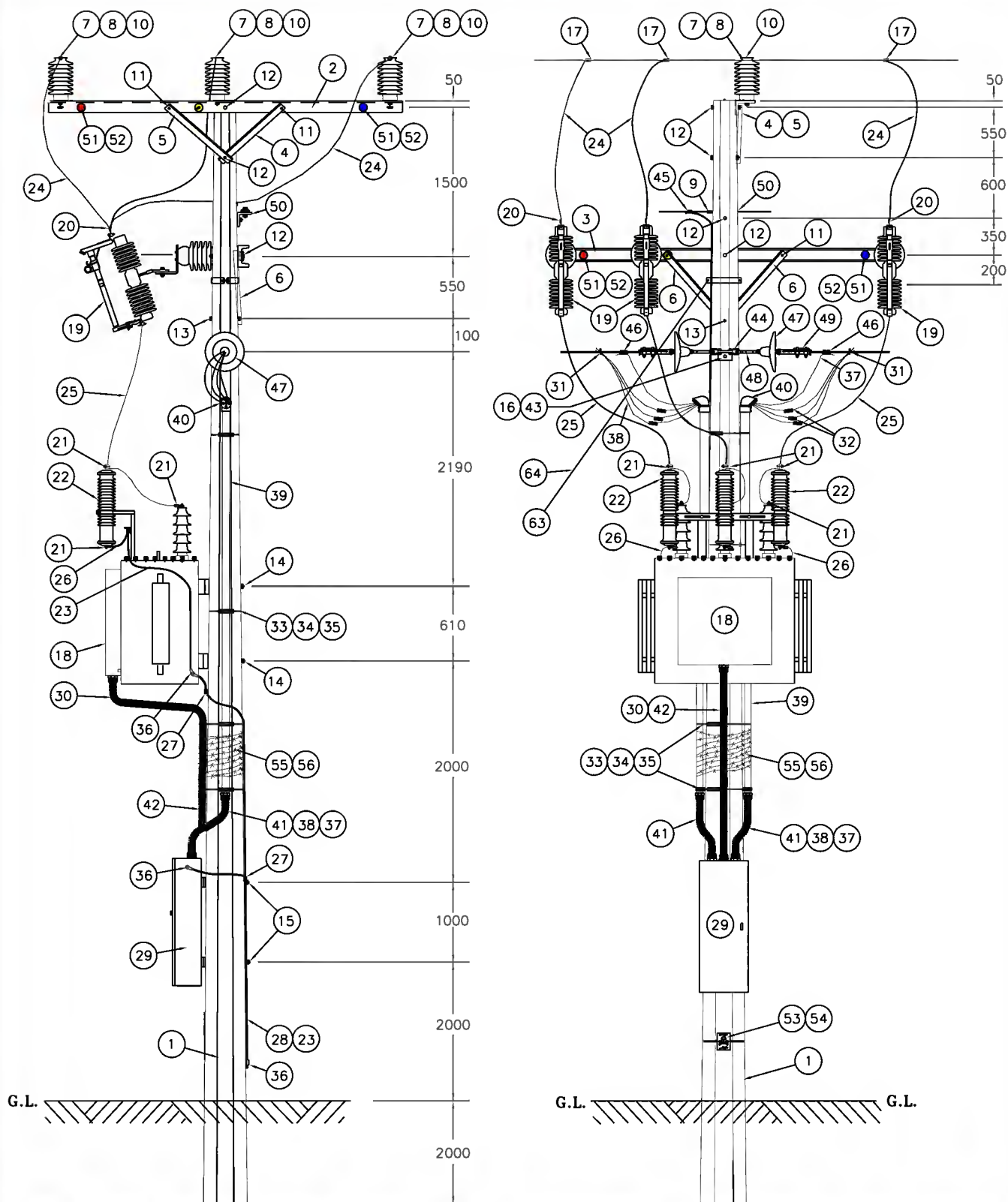
**50/100kVA PMT ON 12M POLE
SINGLE POLE TRANSFORMER STRUCTURE**



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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.180A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
61	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01

DRW.180A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100kVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.180B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
61	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01

DRW.180B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

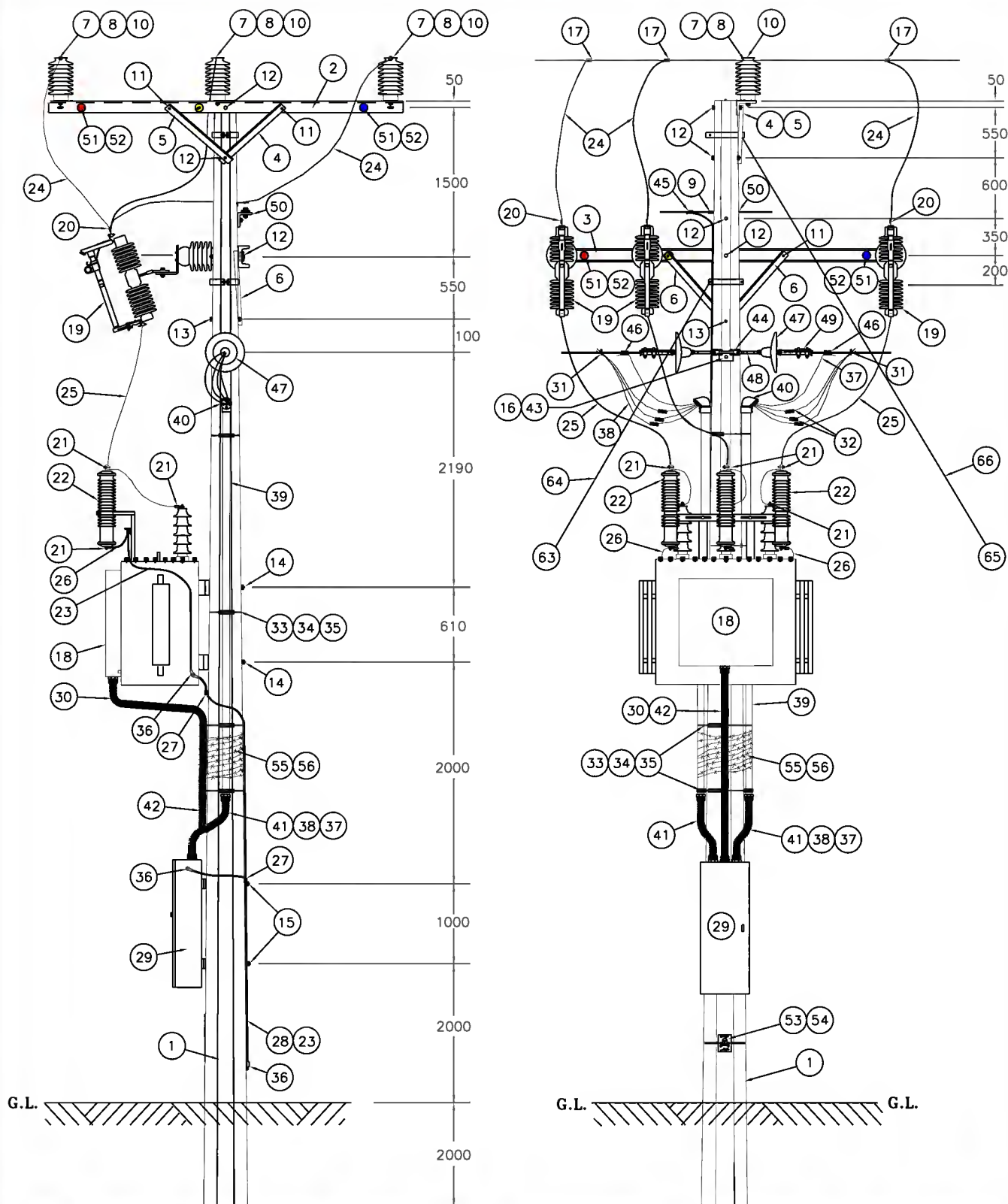
TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.181-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V. LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.181A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
61	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
65	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
66	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01

DRW.181A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.181B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clouse 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
61	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
65	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
66	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01

DRW.181B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

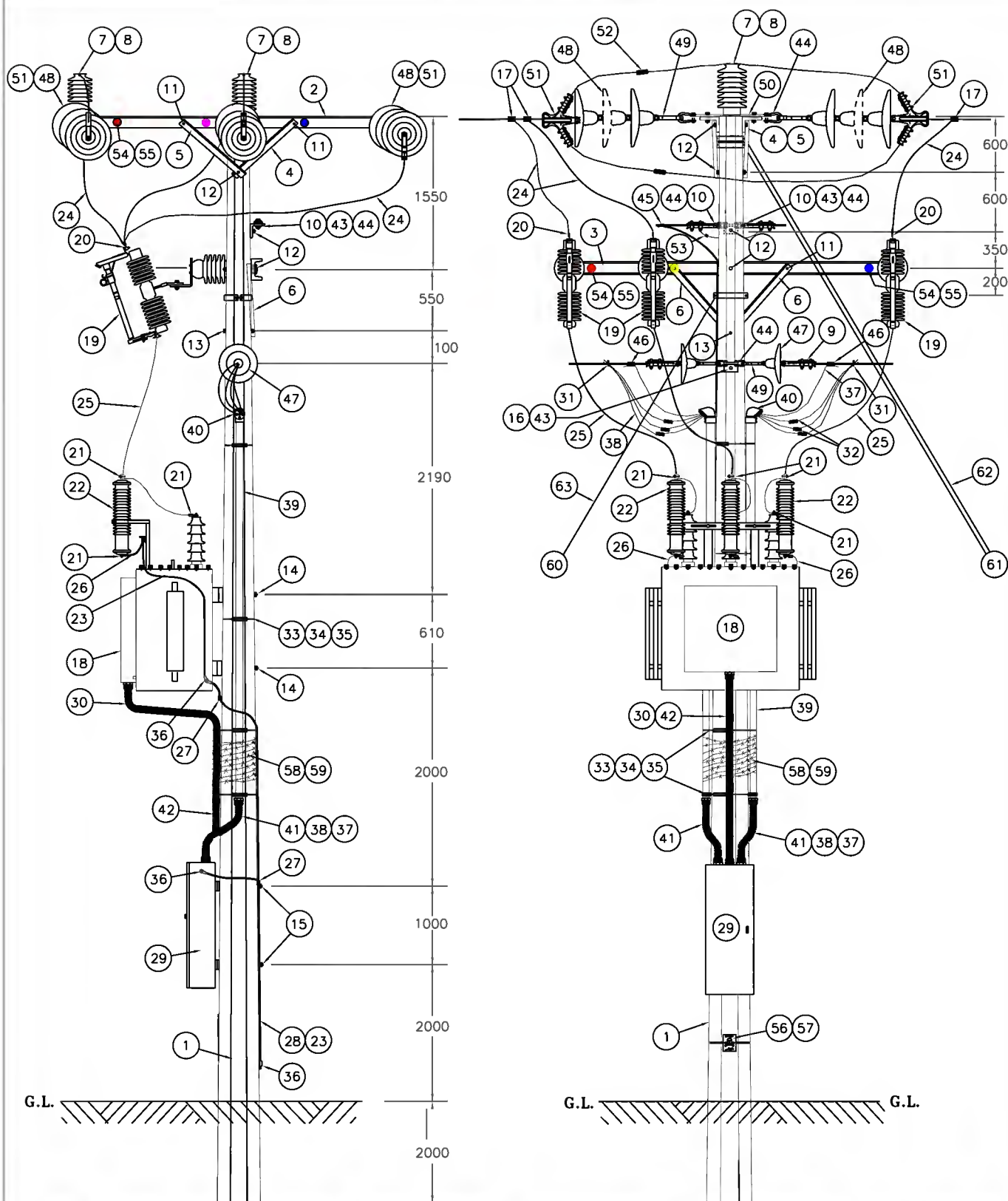
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DATE: DECEMBER 2005G



DRW.182-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V. MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.182A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

**DRW.182A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.182B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

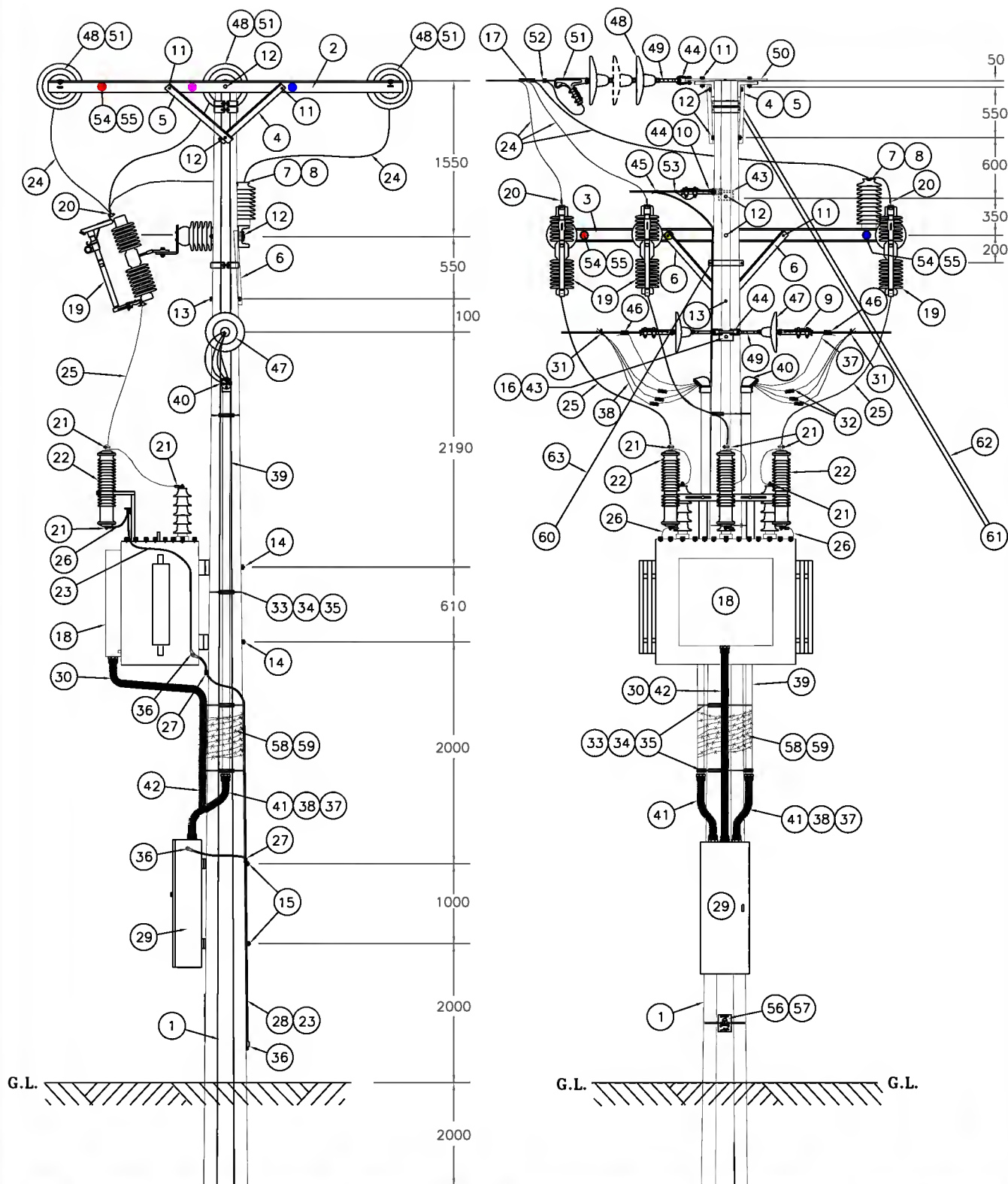
**DRW.182B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



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DATE: DECEMBER 2005G



DRW.183-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V. TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	1 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.183A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm ²	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm ²	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

DRW.183A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	1 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.183B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm ²	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm ²	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

DRW.183B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



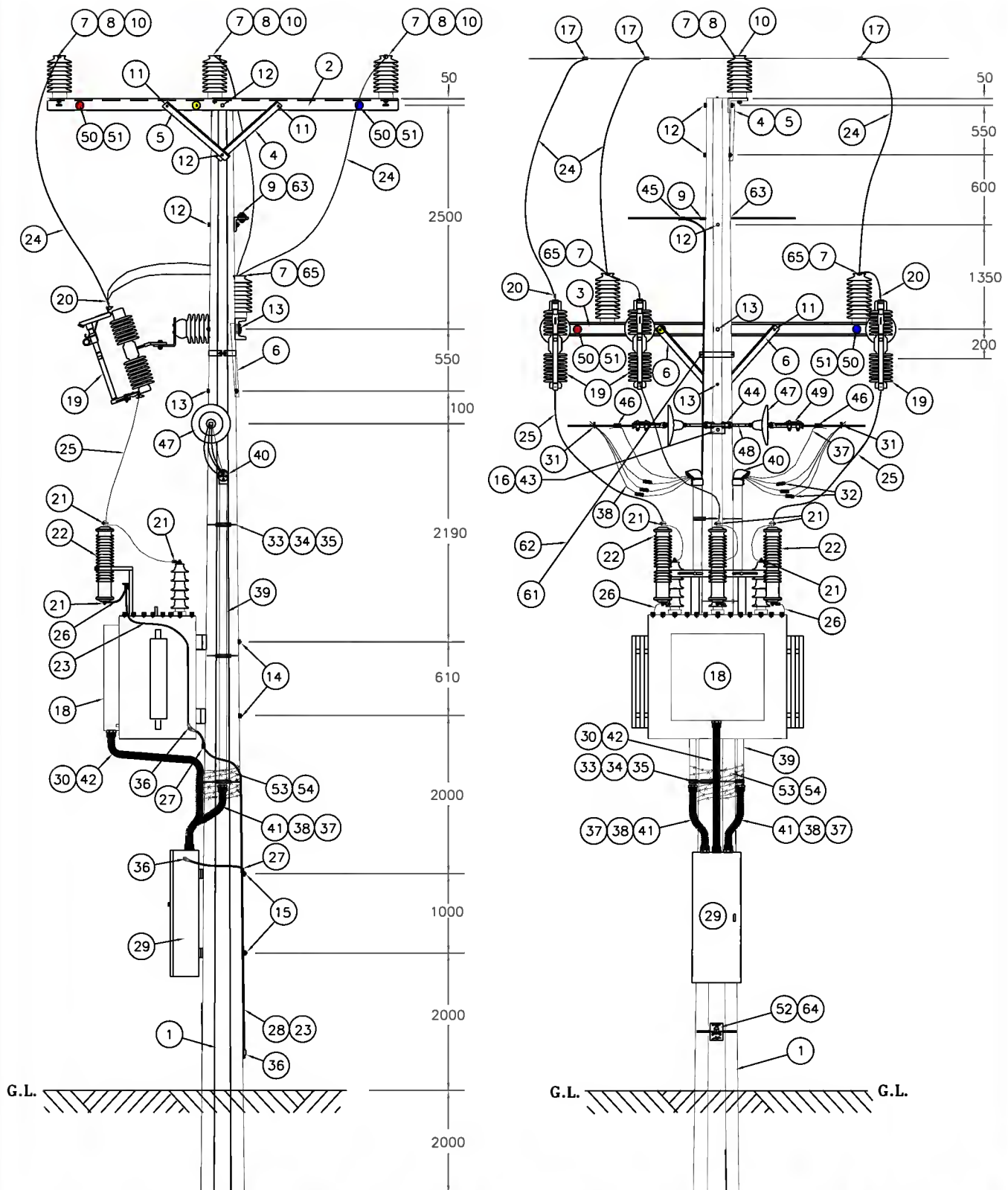
**50/100kVA PMT ON 13M POLE
SINGLE POLE TRANSFORMER STRUCTURE**



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DATE: DECEMBER 2005G



**DRW.184-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET**

ALL DIMENSIONS ARE IN MILLIMETER



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.184A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	16M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.184A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.6
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100kVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.184B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.184B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

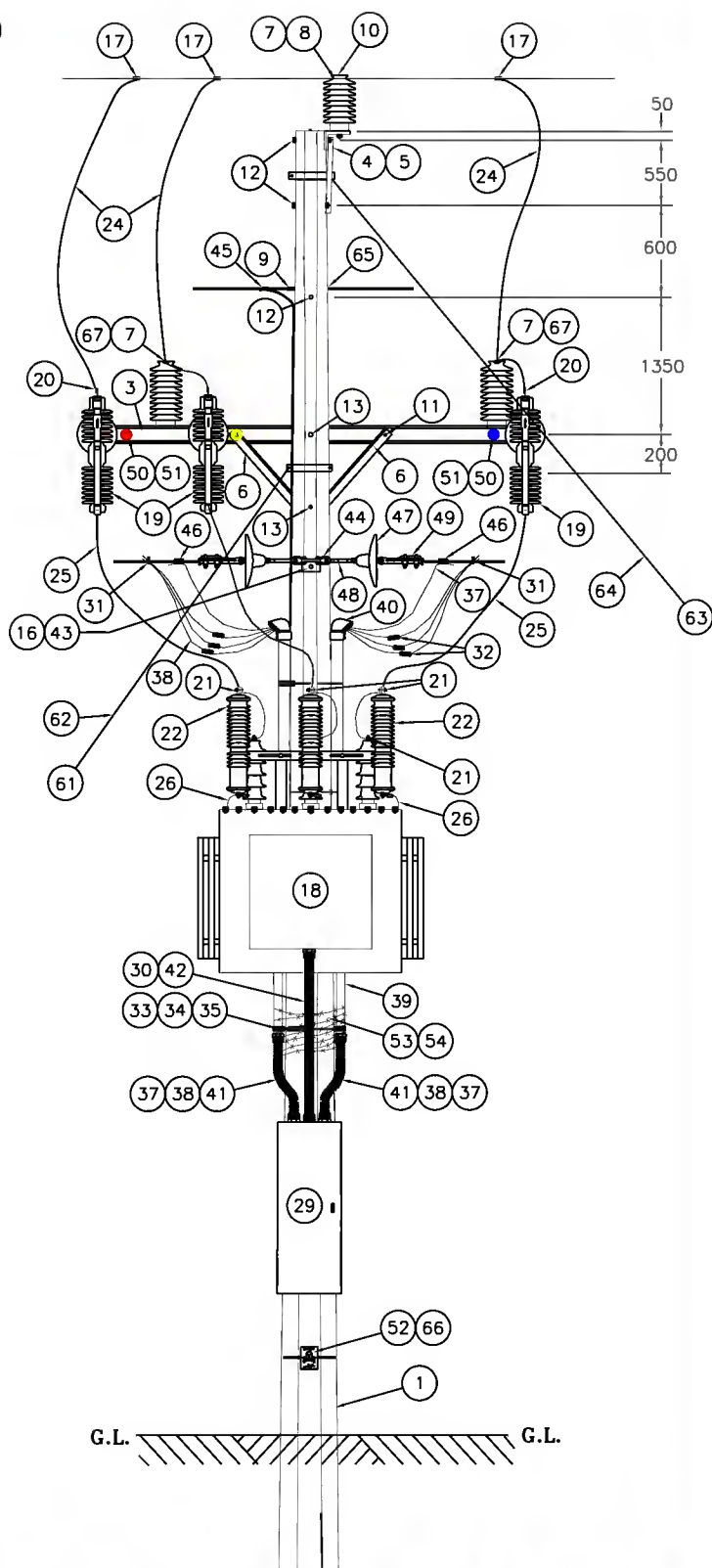
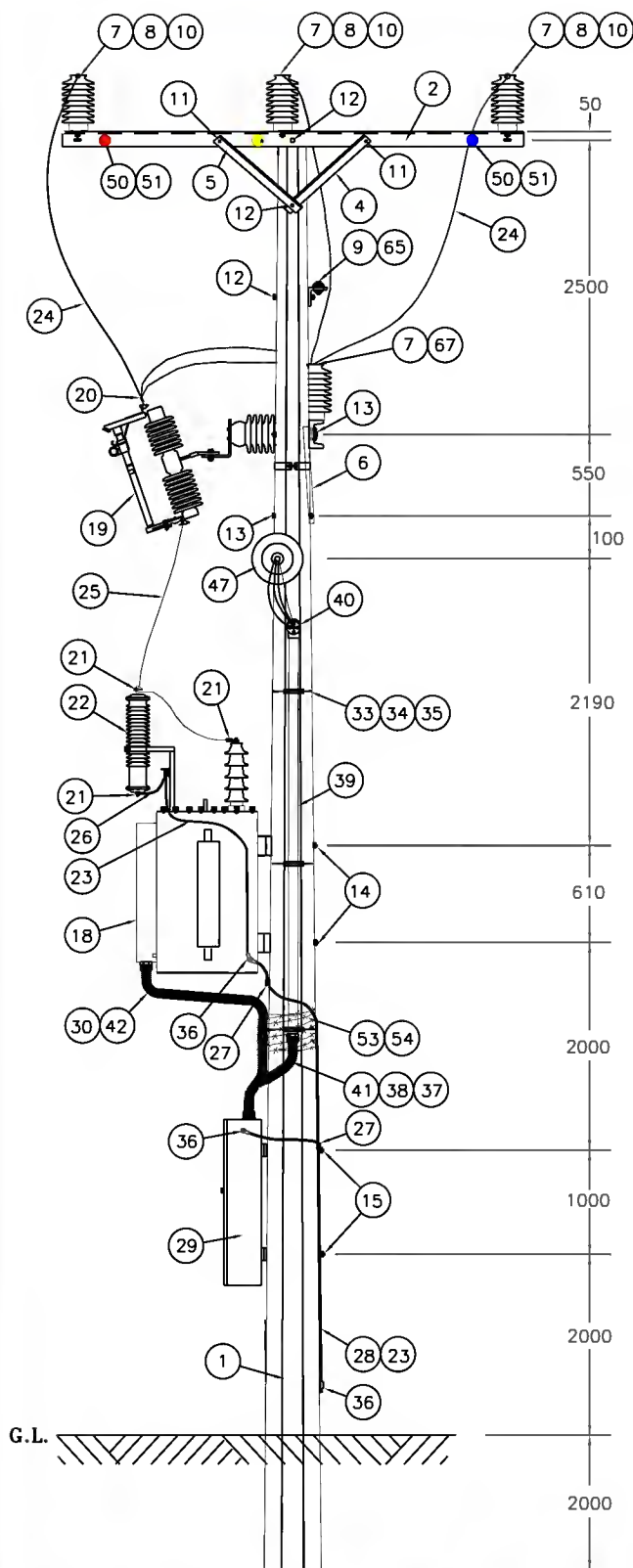
TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.185-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.185A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
64	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.185A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.185B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
64	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35

DRW.185B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

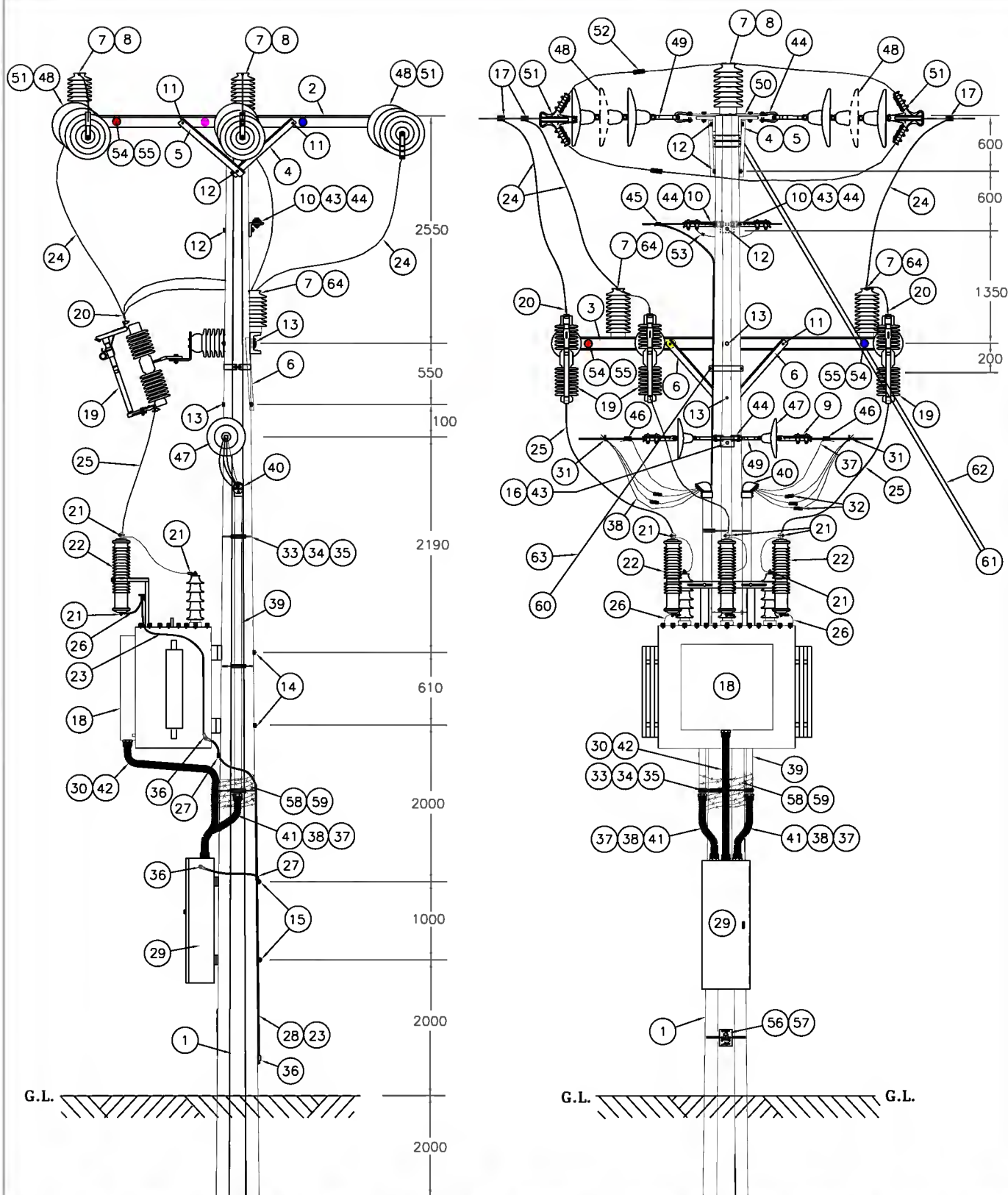
TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.186-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

**DRW.186A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Eorh Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
69	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

DRW.186A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.186B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Eorh Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
69	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

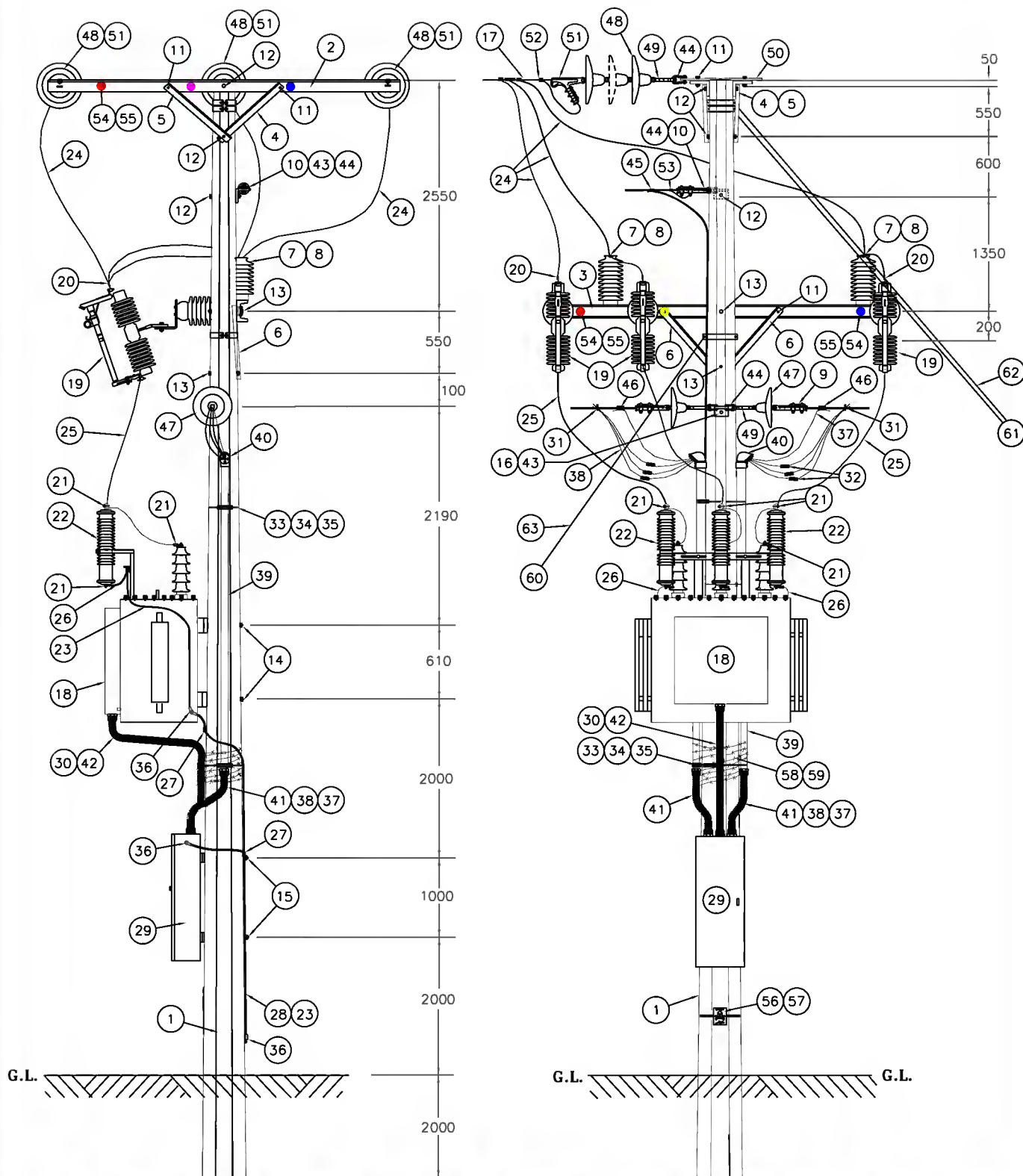
**DRW.186B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



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SDCS-01

DATE: DECEMBER 2005G



DRW.187-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V. TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.187A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Eorh Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm ²	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm ²	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

DRW.187A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.187B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Eorh Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm ²	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm ²	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

DRW.187B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



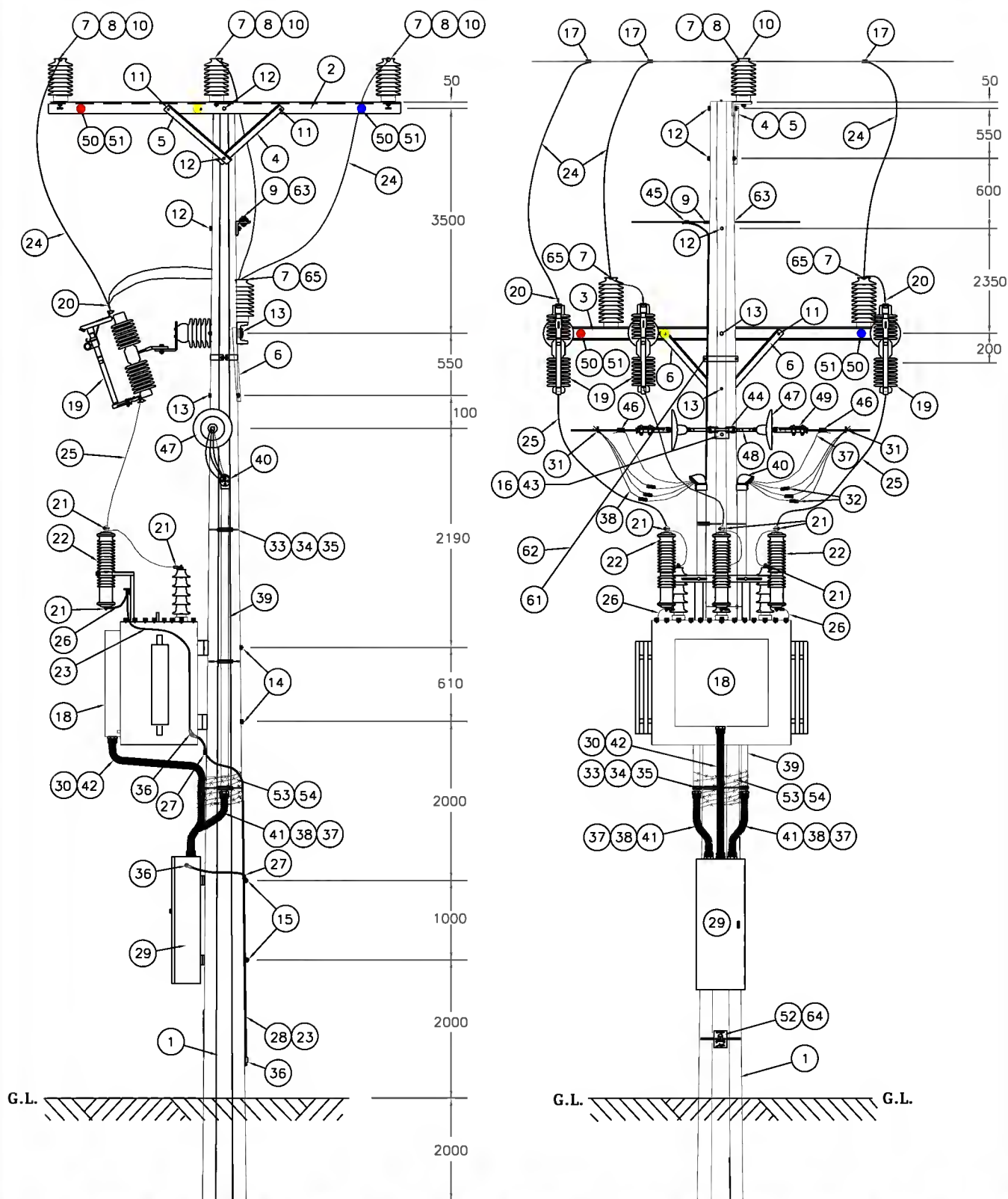
**50/100kVA PMT ON 14M POLE
SINGLE POLE TRANSFORMER STRUCTURE**



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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.188A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.188A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100kVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.188B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	17M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.188B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V
INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

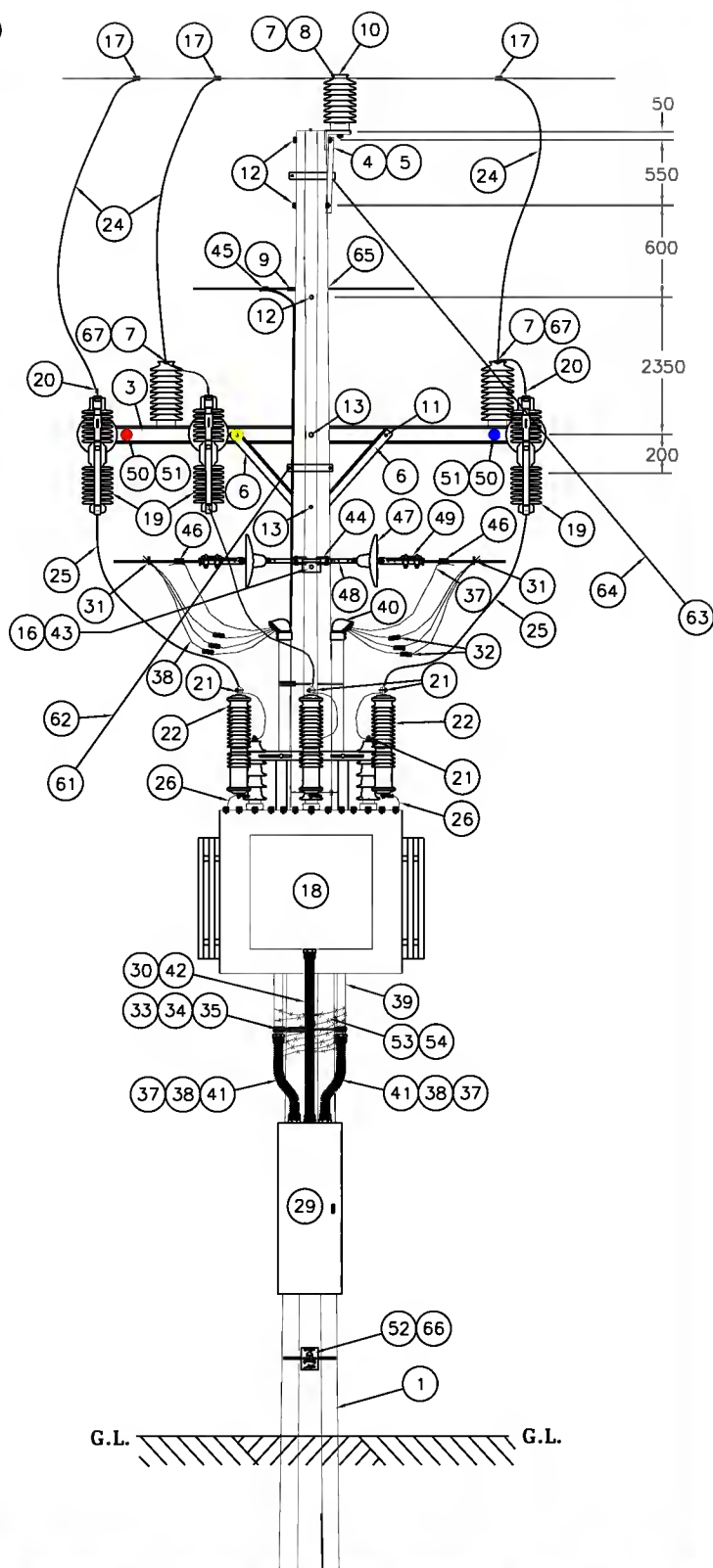
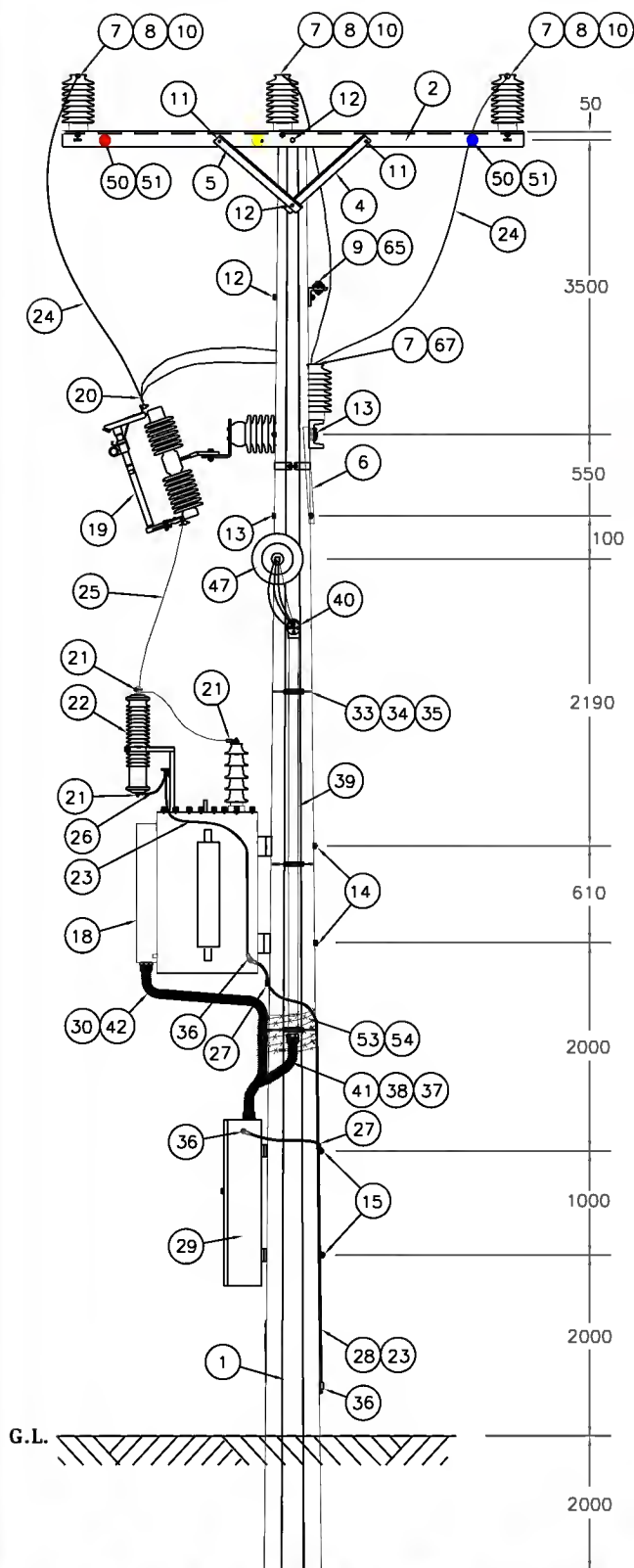
TRSP1B



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SDCS-01

DATE: DECEMBER 2005G



DRW.189-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.189A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
64	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02 Fig. 35

DRW.189A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm ² ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Cu. Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.189B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug 70mm ² Cu. Cable	12-SDMS-02
37	18M	Cu. Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ² Al.	11-SDMS-02
39	2	Polyethylene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm ² Incoming Cable	20-SDMS-02
43	1	Earth Wire Suspension Support	20-SDMS-02 Fig. 05
44	2	Anchore Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator	15-SDMS-01 Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02 Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02 Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
59	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01 Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01
63	1 Set	M.V-S.C One Stay assembly	SDCS-01 Drw. 312
64	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02 Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35

DRW.189B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V
LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

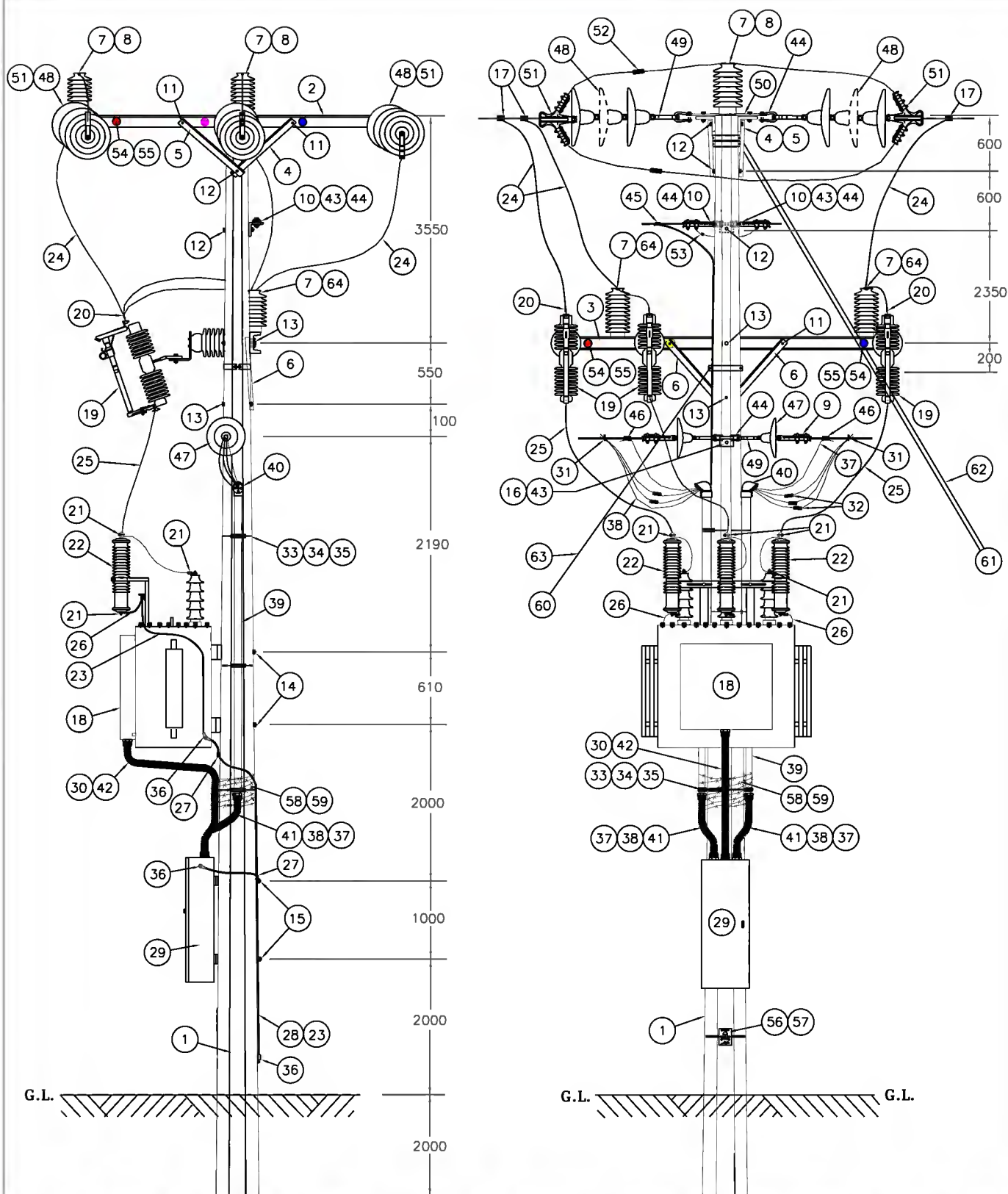
TRSP1B



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.190-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.190A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Eorh Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
69	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

**DRW.190A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

**DRW.190B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Eorh Wire Suspension Support	20-SDMS-02 Fig. 05
44	10	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove Compression Connector for 170mm ² ACSR/AW (Merlin-Merlin)	20-SDMS-02 Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm ² ACSR/AW (Quail-Quail)	20-SDMS-02 Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02 Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
69	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

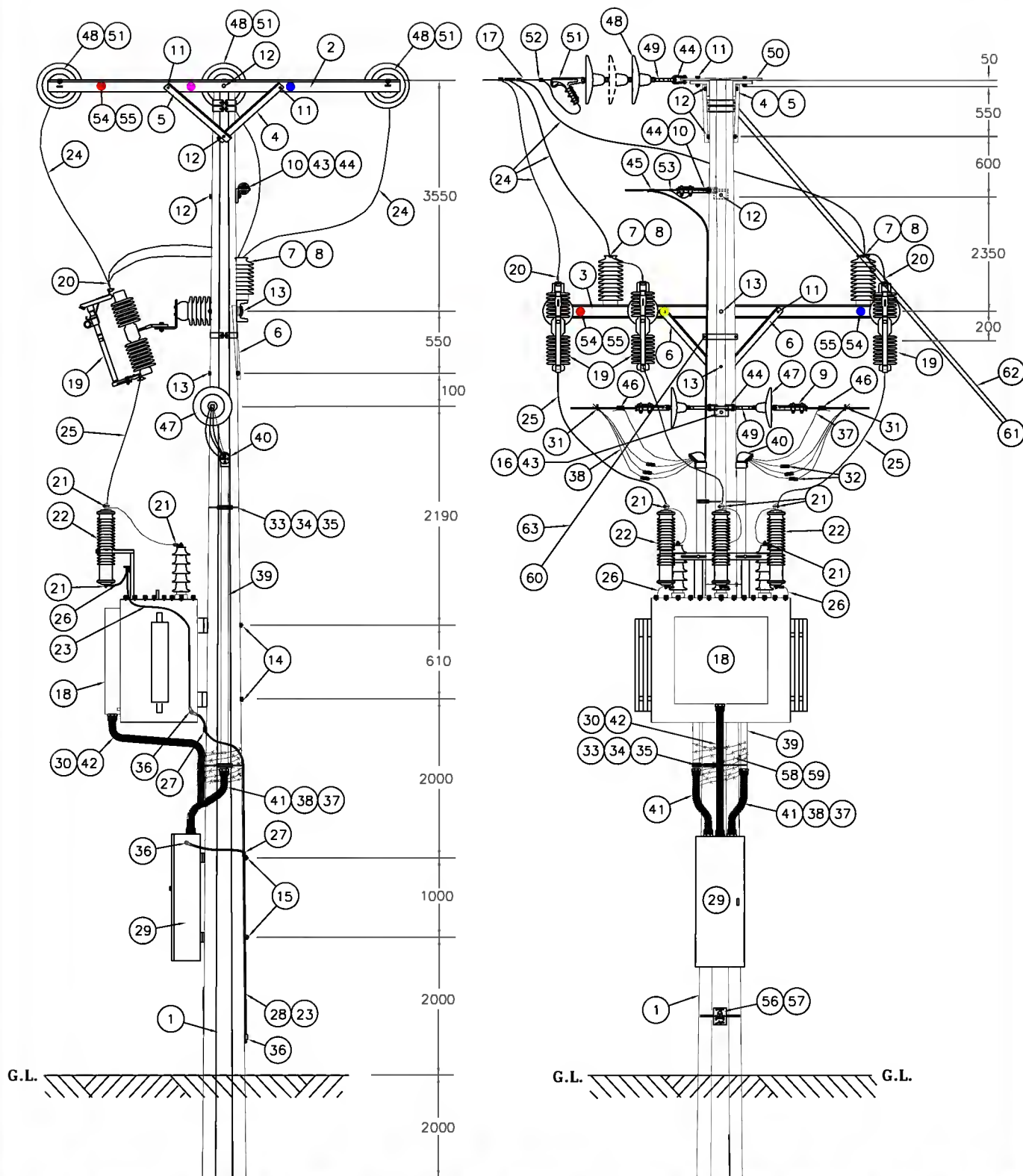
**DRW.190B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V
MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET**



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DRW.191-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V. TERMINAL STRUCTURE WITH STAYS & PMT CABINET

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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.191A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
36	11	Terminal Lug for 70mm ² Cu. Cable	12-SDMS-02
37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Eorh Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm ²	20-SDMS-02 Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm ²	20-SDMS-02 Fig. 39
54	2 Set	Phosing Plates (A,B,C).	20-SDMS-02 Fig. 53
55	6	Phosing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02 Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02 Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02 Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

DRW.191A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	QC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin - Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm ² ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm ² Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm ² Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm ² ACSR/AW	10-SDMS-01	
25	9M	Copper Conductor, Insulated Stranded 35mm ² Soft Drawn		
26	3	35mm ² Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimp Cu. Connector for 70mm ²	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. - 4x185mm ² Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm ² -120mm ²	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.191B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET



SEC DISTRIBUTION CONSTRUCTION STANDARDS

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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES
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37	18M	Copper Conductor Insulated Stranded 70mm ² Soft Drawn	
38	18M	Quadruplex Cable 120mm ²	11-SDMS-02
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm ² Incoming Cable	20-SDMS-02
43	2	Eorh Wire Suspension Support	20-SDMS-02 Fig. 05
44	6	Anchor Shackle	20-SDMS-02 Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-70mm ² Al.	20-SDMS-02
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm ² Cu.-120mm ² Al.	20-SDMS-02
47	2	Suspension Insulator (Single)	15-SDMS-01 Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01 Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02 Fig. 21
50	3	Double Arming Plate	20-SDMS-02 Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02 Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm ²	20-SDMS-02 Fig. 39
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55	6	Phosing Plates Mounting Brackets.	20-SDMS-02 Fig. 54
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59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02 Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01 Drw. 321
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01 Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01
64	1	Pole Numbering Base Plate	20-SDMS-02 Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02 Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02 Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02 Fig. 52
68	8	Terminal Lugs for Cable 4X185mm ² Al.	12-SDMS-02 Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm ² Al.	12-SDMS-02 Fig. 4

DRW.191B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V
TERMINAL STRUCTURE WITH STAYS & PMT CABINET